



# NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

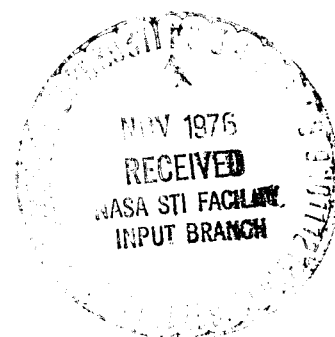
CR-72-1407-1  
AEROTHERMODYNAMIC DATA REPORT  
SPACE SHUTTLE  
AEROTHERMODYNAMIC DATA REPORT  
NASA (100), VOLUME (100)

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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANAGEMENT services

SPACE DIVISION



CHRYSLER CORPORATION

September, 1976

DMS-DR-2212  
NASA CR-147,634

VOLUME 3 OF 4

INVESTIGATIONS OF THE 0.020-SCALE 88-OTS  
INTEGRATED SPACE SHUTTLE VEHICLE JET-PLUME MODEL  
IN THE NASA/AMES RESEARCH CENTER  
11 x 11-FOOT UNITARY PLAN WIND TUNNEL (IA80)

by

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Prepared under NASA Contract Number NAS9-13247

by

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for

Engineering Analysis Division  
Johnson Space Center  
National Aeronautics and Space Administration  
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WIND TUNNEL TEST SPECIFICS:

Test Number: ARC 11-023  
NASA Series Number: IA80  
Model Number: 88-OTS  
Test Dates: 4 through 8 November 1974  
Occupancy Hours: 132

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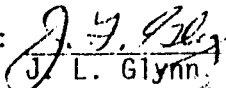
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INVESTIGATIONS OF THE 0.020-SCALE 88-OTS  
INTEGRATED SPACE SHUTTLE VEHICLE JET-PLUME MODEL  
IN THE NASA/AMES RESEARCH CENTER  
11 x 11-FOOT UNITARY PLAN WIND TUNNEL (IA80)

By

M. E. Nichols, Rockwell International Space Division

ABSTRACT

This report documents the results of jet-plume effects wind tunnel test IA80 of the 0.020-scale 88-OTS launch-configuration Space Shuttle Vehicle model in 11 x 11-foot leg of the NASA/Ames Research Center Unitary Plan Wind Tunnel. This test involved cold-gas Main Propulsion System and Solid Rocket - Motor plume simulations at Mach numbers from 0.6 to 1.4. IA80 was a continuation of a series of planned tests of plume effects, including IA19 and IA72. The test period was 4 through 8 November 1974, for 377 recorded runs.

The test-program objective was to determine integrated vehicle surface-pressure distributions, elevon and rudder hinge moments, and wing and vertical-tail root bending and torsional moments due to MPS and SRB plume interactions. Nozzle power conditions were controlled per pretest nozzle calibrations carried out by Rockwell International.

Model angle-of-attack was varied from  $-4^{\circ}$  to  $+4^{\circ}$ ; model angle-of-sideslip was varied from  $-4^{\circ}$  to  $+4^{\circ}$ . Reynolds number was varied for certain test conditions and configurations, with the nominal freestream total pressure being 14.69 psia.



### ABSTRACT (Concluded)

This report consists of 4 volumes of force and pressure data. They are arranged in the following manner:

VOLUME NUMBER	CONTENTS
1	IA80 Plotted Force and Pressure Data
2	IA80 Tabulated Force Data
	IA80 Tabulated Pressure Data in Force Format
	(a) orbiter base pages 164-221
	(b) orbiter fuselage pages 222-954
3	IA80 Tabulated Pressure Data
	(a) orbiter fuselage pages 1-248
	(b) orbiter bodyflap upper surface pages 249-496
	(c) orbiter bodyflap lower surface pages 497-744
4	IA80 Tabulated Pressure Data
	(a) external tank pages 745-992
	(b) external tank base pages 993-1240
	(c) SRB skirt pages 1241-1488

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FIGURE NUMBER	TITLE	CONDITIONS VARYING	PLOTTED COEFFICIENTS SCHEDULE	PAGE
138	PLUME EFFECTS ON SRB BASE PRESSURE COEFFICIENTS, MACH = 1.25	ALPHA, BETA, XB/LB	U	799-804
139	PLUME EFFECTS ON SRB BASE PRESSURE COEFFICIENTS, MACH = 1.4	ALPHA, BETA, XB/LB	U	805-810

## PLOTTED COEFFICIENTS SCHEDULE:

- (A) CBMW, CTMW, CNW versus ALPHA
- (B) CHEI, CHEO versus ALPHA
- (C) CBMV, CTMV, CYV versus BETA
- (D) CHR versus BETA
- (E) CBMW, CTMW, CNW versus BETA
- (F) CHEI, CHEO versus BETA
- (G) CBMW, CTMW, CNW versus MACH NUMBER
- (H) DCBMW, DCTMW, DCNW versus MACH NUMBER
- (I) DCBMWE, DCTMWE, DCNWE versus MACH NUMBER
- (J) CHEI, CHEO versus MACH NUMBER
- (K) DCHEI, DCHEO versus MACH NUMBER
- (L) DCHEIE, DCHEOE versus MACH NUMBER



# INDEX OF DATA FIGURES (Concluded)

- (M) DCHR versus MACH NUMBER
- (N) DCMBV, DCTMV, DCYV versus MACH NUMBER
- (O) DXWCP, DYWCP versus MACH NUMBER
- (P) DXVCP, DZVCP versus MACH NUMBER
- (Q) CP versus MACH NUMBER
- (R) CP#AV versus MACH NUMBER
- (S) DCP#A versus MACH NUMBER
- (T) CP versus  $\rho/\text{ROD}$
- (U) CP versus PHI

# NOMENCLATURE

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
$b$	BREF	span of wing, in
$b_V$		span of vertical tail, in
$BM_V$		vertical tail-root bending moment (about vertical tail reference center), in-lb
$BM_{V_O}$		vertical tail-root bending moment at outboard gauge, in-lb
$BM_{V_I}$		vertical tail-root bending moment at inboard gauge, in-lb
$BM_W$		wing-root bending moment (about wing reference center), in-lb
$BM_{W_I}$		wing-root bending moment at inboard gauge, in-lb
$BM_{W_O}$		wing-root bending moment at outboard gauge, in-lb
$\bar{c}$	LREF	MAC of wing, in
$C_{B_V}$	CBMV	vertical tail-root bending-moment coefficient
$C_{B_W}$	CBMW	wing-root bending-moment coefficient
$\bar{c}_E$		MAC of total elevon panel, in
$C_{H_{E_I}}$	CHEI	hinge-moment coefficient for inboard elevon
$C_{H_{E_O}}$	CHEO	hinge-moment coefficient for outboard elevon
$C_{H_{E_T}}$	CHET	total elevon hinge-moment coefficient

# NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
$C_{H_R}$	CHR	hinge-moment coefficient for rudder
$C_{N_W}$	CNW	wing normal-force coefficient
$C_{P_i}$	CPI	pressure coefficient for model surface tap i
$CPR_j$		chamber-pressure ratio for nozzle j
$\bar{c}_R$		MAC of rudder panel, in
$C_{T_V}$	CTMV	vertical tail-root twisting-moment coefficient
$C_{T_W}$	CTMW	wing-root torsion-moment coefficient
$\bar{c}_V$		MAC of vertical tail, in
$C_{Y_V}$	CYV	vertical-tail side-force coefficient
$EPR_j$		exit-pressure ratio for nozzle j
ET		External Tank
$HM_{E_I}$		hinge moment of inboard elevon, in-lb
$HM_{E_O}$		hinge moment of outboard elevon, in-lb
$HM_R$		hinge moment of rudder, in-lb
M	MACH	freestream Mach number
MPS		Main Propulsion System
N		nominal

# NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
OTS		Orbiter + Tank + SRB
$P_{c_j}$		chamber pressure (absolute) of nozzle j
$P_{cSRM}$		SRM supply total pressure, psia (as set)
$P_{cMPS}$		MPS supply total pressure, psia (as set)
$P_{e_j}$		exit pressure (absolute) of nozzle j
$P_i$		pressure (absolute) at model surface tap i
$P_T$		freestream total pressure, psia
$P_\infty$		freestream static pressure, psia
q	Q(PSF)	freestream dynamic pressure, psf
Re/ft	RN/L	freestream unit Reynolds number, $ft^{-1}$
S	SREF	reference wing area, $ft^2$
SRB		Solid Rocket Booster
SRM		Solid Rocket Motor
SSME		Space Shuttle Main Engine
$S_E$		reference elevon area, $ft^2$
$S_R$		reference rudder area, $ft^2$
$S_V$		reference vertical tail area, $ft^2$
$TM_V$		vertical tail-root torsional moment (about vertical tail reference center), in-lb
$TM_{V_G}$		vertical tail-root torsional moment at gauge, in-lb

# NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
$T_{M_W}$		wing-root torsional moment (about wing reference center), in-lb
$T_{M_{WG}}$		wing-root torsional moment at gauge, in-lb
$T_{T_{MPS}}$		MPS supply total temperature, °R
$T_{T_{SRM}}$		SRM supply total temperature, °R
$T_T$		freestream total temperature, °R
$T_\infty$		freestream static temperature, °R
$X_{CP_V}$	XVCP	vertical tail center-of-pressure, longitudinal location, in
$X_{CP_W}$	XWCP	wing center-of-pressure, longitudinal location, in
$X_N$		Orbiter nose station, in
$X_{TM_{VG}}$		longitudinal location of vertical tail-root torsional gauge, in
$X_{TM_{WG}}$		longitudinal location of wing-root torsional gauge, in
$X_{VRC}$		longitudinal (station) location of vertical tail reference center, in
$X_{WRC}$		longitudinal (station) location of wing reference center, in
$Y_{BM_{WI}}$		lateral location of inboard wing-root bending gauge, in
$Y_{BM_{WO}}$		lateral location of outboard wing-root bending gauge, in

# NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
$Y_{CP_W}$	YWCP	wing center-of-pressure, lateral location, in
$Y_{WRC}$		lateral (buttplane) location of wing reference center, in
$Z_{BM_{V_I}}$		vertical location of inboard vertical tail-root bending gauge, in
$Z_{BM_{V_O}}$		vertical location of outboard vertical tail-root bending gauge, in
$Z_{CP_V}$	ZVCP	vertical tail center-of-pressure, vertical location, in
$Z_{VRC}$		vertical (waterplane) location of vertical tail reference center, in
$\alpha$	ALPHA	model angle-of-attack, deg
$\alpha_{N_j}$		pitch angle of nozzle-j measured in a plane parallel to the Orbiter plane of symmetry, degrees
$\beta$	BETA	model angle-of-sideslip, deg
$\gamma_{N_j}$		pitch angle of nozzle-j measured in a plane which yaws with the nozzle, degrees
$\delta_{BF}$	BDFLAP	bodyflap deflection, deg
$\delta_{E_{I_I}}$	ELV-LI	left inboard elevon deflection, deg
$\delta_{E_{I_O}}$	ELV-LO	left outboard elevon deflection, deg
$\delta_{E_{r_I}}$	ELV-RI	right inboard elevon deflection, deg
$\delta_{E_{r_O}}$	ELV-RO	right outboard elevon deflection, deg

# NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
$\delta E_I$	ELV-IB	inboard elevon deflection, deg
$\delta E_O$	ELV-OB	outboard elevon deflection, deg
$\delta_R$	RUDDER	rudder deflection, deg
$\delta_{SB}$	SPDBRK	speedbrake deflection, deg
$\Delta C_{p_i}$	DCPi	incremental pressure coefficient, i = tap#
$\Delta C_{p_{av\#}}$	DCP#A	average value of incremental pressure coefficients for model surface taps
$\psi_{Nj}$		yaw angle of nozzle-j measured in an Orbiter waterplane, deg
$\phi$	PHI	radial location, deg
$C_{p_{av\#}}$	CP#AV	average value of pressure coefficients for model surface taps
$\Delta(i)$	D(i)	incremental coefficient (i) due to thrust (i) $\equiv$ previously defined coefficient
$\Delta(i)_{\delta E}$	D(i)E	incremental coefficient (i) due to elevon deflection, (i) $\equiv$ previously defined coefficient
$\ell_B$		body length, in
$R/R_{od}$	R/ROD	radius of tap location divided by outer radius
$x_B/\ell_B$	XB/LB	SRB base longitudinal distance divided by body length

## NOMENCLATURE (Concluded)

### SUBSCRIPTS

B	base, body
c	chamber
e	exit
E	elevon
G	gauge
i	surface-pressure tap number
I	inboard
j	nozzle number
l	left
N	nozzle, Orbiter nose
O	outboard, Orbiter
r	right
R	rudder
S	Solid Rocket Booster
T	External Tank, total
V	vertical tail
W	wing
$\infty$	static



## CONFIGURATIONS INVESTIGATED

The model employed in Test IA80, 88-OTS, was a 0.020-scale representation of the Vehicle 5 Space Shuttle launch configuration with mated Orbiter, External Tank, and Solid Rocket Boosters. Main Propulsion System and Solid Rocket Motor cold-gas plume-simulation was made possible by dual high-pressure air-supply systems.

Various elevon control settings were incorporated in the run schedule, while no gimbal-angle changes were made on the nozzles. Several different nozzle operation pressures were set for each Mach number, and two nozzle contours were tested.

Component dimensions are presented in Table III. Control-setting parameters were as indicated in Table II. Model surface-pressure tap locations are shown in Table IV.

The Orbiter, designated as 0, was comprised of components identified as follows:

<u>Component Symbol</u>	<u>Description</u>
B <sub>62</sub>	fuselage
C <sub>12</sub>	canopy
E <sub>52</sub>	elevons
F <sub>10</sub>	bodyflap
M <sub>16</sub>	OMS/RCS pods
N <sub>87</sub>	MPS nozzles, conical
N <sub>89</sub>	OMS nozzles

### CONFIGURATIONS INVESTIGATED (Continued)

N <sub>104</sub>	MPS nozzles, contoured
R <sub>5</sub>	rudder/speedbrake
V <sub>8</sub>	vertical tail
W <sub>116</sub>	wing

The External Tank, designated as T<sub>28</sub>, was comprised of components identified as follows:

AT <sub>28</sub>	attach structure
AT <sub>31</sub>	attach structure
AT <sub>32</sub>	attach structure
FR <sub>10</sub>	aft attach crossbeam
FL <sub>10</sub>	feedline
FL <sub>11</sub>	feedline
PT <sub>12</sub>	ET protuberances
PT <sub>22</sub>	ET protuberances
PT <sub>23</sub>	ET protuberances
PT <sub>24</sub>	ET protuberances
PT <sub>25</sub>	ET protuberances
PT <sub>26</sub>	ET protuberances
PT <sub>27</sub>	ET protuberances

### CONFIGURATIONS INVESTIGATED (Concluded)

The solid rocket booster, designated as S<sub>22</sub>, was composed of components identified as follows:

N <sub>88</sub>	SRB nozzles
PS <sub>11</sub>	SRB protuberances
PS <sub>12</sub>	SRB protuberances
PS <sub>13</sub>	SRB protuberances
PS <sub>14</sub>	SRB protuberances
PS <sub>17</sub>	SRB protuberances
PS <sub>18</sub>	SRB protuberances
PS <sub>19</sub>	SRB protuberances

The launch configuration was designated as OTS on the Data Set/Run Number Collation Summary sheets.

## TEST FACILITY DESCRIPTION

The NASA/Ames Research Center Unitary Plan Wind Tunnel 11 x 11 transonic leg is one of three circuits operating from a common power system and two compressor systems. The 11 x 11 leg is capable of attaining Mach numbers from 0.60 to 1.40, at Reynolds numbers from  $1.7 \times 10^6$  per foot to  $9.4 \times 10^6$  per foot.

The tunnel is a closed-return, air-medium, variable-density facility, operating at ambient temperatures and having a bled test section for transonic conditions.

Models are supported by means of conventional stings or sting/strut assemblies for force, moment, pressure, and component-loads testing. The tunnel sector-strut system can attain angles-of-attack to  $\pm 15$  degrees and angles-of-sideslip to  $\pm 15$  degrees about its body-of-revolution.

Schlieren and shadowgraph photographic systems are available, and high-pressure air-supply systems exist for use in power-plume simulations and thrust tests.

## DATA REDUCTION

Standard tunnel operation parameters were computed by the facility along with model plume-simulation pressure data, model surface-pressure values and coefficients, rudder and elevon hinge-moments, and air-supply temperatures. Model angle-of-attack was determined by the onboard dangleometer. Furthermore, wing and vertical-tail bending and torsional moments were recorded and reduced to present centers-of-pressure and forces.

The following equations and methods were used:

Wing Normal-Force Coefficient:

$$C_{N_W} = \frac{BM_{W_I} - BM_{W_O}}{(Y_{BM_{W_O}} - Y_{BM_{W_I}}) S q}$$

Wing-Root Bending-Moment Coefficient:

$$C_{B_W} = \left[ \frac{BM_{W_O}}{S q b} \right] + \left[ \frac{C_{N_W} (Y_{BM_{W_O}} - Y_{WRC})}{b} \right]$$

or:

$$= \left[ \frac{BM_{W_I}}{S q b} \right] + \left[ \frac{C_{N_W} (Y_{BM_{W_I}} - Y_{WRC})}{b} \right]$$

Wing-Root Torsional-Moment Coefficient:

$$C_{T_W} = \left[ \frac{TM_{W_G}}{S q \bar{c}} \right] - \left[ \frac{C_{N_W} (X_{TM_{W_G}} - X_{WRC})}{\bar{c}} \right]$$

# DATA REDUCTION (Continued)

## Wing-Center-of-Pressure:

$$\begin{aligned} x_{CP_W} &= x_{TM_{WG}} - \left[ \frac{TM_{WG}}{S C_{N_W} q} \right] \\ y_{CP_W} &= y_{BM_{WI}} + \left[ \frac{BM_{WI}}{S C_{N_W} q} \right] \\ &\text{or: } = y_{BM_{WO}} + \left[ \frac{BM_{WO}}{C_{N_W} S q} \right] \end{aligned}$$

## Vertical Tail Side-Force Coefficient:

$$C_{Y_V} = \frac{BM_{VI} - BM_{VO}}{(Z_{BM_{VO}} - Z_{BM_{VI}}) S_V q}$$

## Vertical Tail-Root Bending-Moment Coefficient:

$$\begin{aligned} C_{B_V} &= \left[ \frac{BM_{VO}}{S_V q b_V} \right] + \left[ \frac{C_{Y_V} (Z_{BM_{VO}} - Z_{VRC})}{b_V} \right] \\ &= \left[ \frac{BM_{VI}}{S_V q b_V} \right] + \left[ \frac{C_{Y_V} (Z_{BM_{VI}} - Z_{VRC})}{b_V} \right] \end{aligned} \quad \text{or:}$$

## Vertical Tail-Root Torsional-Moment Coefficient:

$$C_{T_V} = \left[ \frac{TM_{VG}}{S_V q \bar{c}_V} \right] = \left[ \frac{C_{Y_V} (x_{TM_{VG}} - x_{VRC})}{\bar{c}_V} \right]$$

## DATA REDUCTION (Continued)

### Vertical Tail Center-of-Pressure:

$$\begin{aligned}
 x_{CP_V} &= x_{TM_{VG}} - \left[ \frac{TM_{VG}}{C_{Y_V} S_V q} \right] \\
 z_{CP_V} &= z_{BM_{VI}} + \left[ \frac{BM_{VI}}{C_{Y_V} S_V q} \right] \\
 &\text{or:} \\
 &= z_{BM_{VO}} + \left[ \frac{BM_{VO}}{C_{Y_V} S_V q} \right]
 \end{aligned}$$

### Nozzle-Pressure Ratios:

$$CPR_j = \frac{P_{c_j}}{P_\infty}$$

$$EPR_j = \frac{P_{e_j}}{P_\infty}$$

where: j = 1, Top MPS nozzle  
 2, L.H. MPS nozzle  
 3, R.H. MPS nozzle  
 4, L.H. SRB nozzle  
 5, R.H. SRB nozzle

### Hinge-Moments:

$$C_{H_{EI}} = \frac{HM_{EI}}{S_E q \bar{c}_E}$$

$$C_{H_{EO}} = \frac{HM_{EO}}{S_E q \bar{c}_E}$$

$$C_{H_{ET}} = C_{H_{EI}} + C_{H_{EO}}$$

$$C_{H_R} = \frac{HM_R}{S_R q \bar{c}_R}$$

## DATA REDUCTION (Continued)

### Surface-Pressure Coefficients:

$$C_{p_i} = \frac{P_i - P_\infty}{q}$$

Coefficient averages:

For  $i = 2, 21, 22, 39, 40, 60, 67, 68, 75, 76$

$$C_{p_{av_i}} = (C_{p_i} + C_{p_{i+2}} + C_{p_{i+4}} + C_{p_{i+6}}) / 4$$

For  $i = 12, 29, 30, 47, 48$ :

$$C_{p_{av_i}} = (C_{p_i} + C_{p_{i+2}} + C_{p_{i+6}} + C_{p_{i+8}}) / 4$$

And:

$$C_{p_{av_{13}}} = (C_{p_{13}} + C_{p_{17}} + C_{p_{19}}) / 3$$

$$C_{p_{av_{59}}} = (C_{p_{59}} + C_{p_{61}} + C_{p_{63}} + C_{p_{67}}) / 4$$

To reflect plume effects on surface pressures, incremental data were computed from results of tests with plume simulation and tests without plume simulation:

$$\Delta C_{p_i} = C_{p_i} \left( \begin{smallmatrix} \text{with} \\ \text{plume} \end{smallmatrix} \right) - C_{p_i} \left( \begin{smallmatrix} \text{without} \\ \text{plume} \end{smallmatrix} \right)$$

$$\Delta C_{p_{av_i}} = C_{p_{av_i}} \left( \begin{smallmatrix} \text{with} \\ \text{plume} \end{smallmatrix} \right) - C_{p_{av_i}} \left( \begin{smallmatrix} \text{without} \\ \text{plume} \end{smallmatrix} \right)$$



# DATA REDUCTION (Continued)

<u>Symbol</u>	<u>Full-Scale</u>	<u>Model-Scale</u>
b	936.68 in	18.734 in
b <sub>V</sub>	315.72 in	6.3144
$\bar{c}$	474.8 in	9.496 in
$\bar{c}_E$	90.70 in	1.814 in
$\bar{c}_R$	73.20 in	1.464 in
$\bar{c}_V$	199.81 in	3.996 in
$\ell_B$	1290.3 in	25.806 in
S <sub>E</sub>	210.00 ft <sup>2</sup>	0.08400 ft <sup>2</sup>
S <sub>R</sub>	100.15 ft <sup>2</sup>	0.04006 ft <sup>2</sup>
S	2690.0 ft <sup>2</sup>	1.0760 ft <sup>2</sup>
S <sub>V</sub>	413.25 ft <sup>2</sup>	0.16530 ft <sup>2</sup>
X <sub>N</sub>	235.0	4.700 in
X <sub>TMVG</sub>	—	28.5500 in
X <sub>TMWG</sub>	—	24.6400 in
X <sub>VRC</sub>	1414.3 in	28.286 in
X <sub>WRC</sub>	1307.0 in	26.140 in
Y <sub>BMWI</sub>	—	2.4962 in
Y <sub>BMWO</sub>	—	3.9037 in

DATA REDUCTION (Concluded)

<u>Symbol</u>	<u>Full-Scale</u>	<u>Model-Scale</u>
YWRC	106.0 in	2.120 in
$Z_{BMV_I}$	—	10.4681 in
$Z_{BMV_O}$	—	11.3935 in
$Z_{VRC}$	503.0 in	10.060 in

Resulting data are presented in the data figures and in the appendix.

## RESULTS AND DISCUSSION

Generally high data confidence can be ascribed to the results of this test program, as instrumentation anomalies were few and correctable. Most data error was attributable to model failure, and the following outlines those incidents.

Hinge-moment data was consistently good with only minor zero-return changes due to gradual wear of hinge bearings in the elevons.

Post test data-correction factors had to be applied to Main Propulsion System nozzle chamber pressure readings, as the total-pressure probes progressively failed during testing. However, these corrections were small, on the order of 1%, and are already incorporated in data presented herein.

Scanivalve-measured Orbiter, External Tank, and Solid Rocket Booster surface pressures were also extremely reliable, with only one orifice apparently plugged, Tap #30 shown in Table 4.

Due to the loss of the right-hand contoured MPS nozzle during Run 311, all contoured-nozzle configuration testing after Run 313 employed the conical nozzle in the top-center location. The top-center contoured nozzle was used in the right-hand location, consequently.

TABLE I

TEST : IA80		DATE : 8 NOV., 1974	
TEST CONDITIONS			
MACH NUMBER	REYNOLDS NUMBER (per foot)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.60	$1.75 \times 10^6$	1.46	77
0.60	$2.06 \times 10^6$	2.13	81
0.60	$3.39 \times 10^6$	2.93	91
0.90	$2.17 \times 10^6$	2.44	85
0.90	$3.13 \times 10^6$	3.62	90
0.90	$4.26 \times 10^6$	4.48	92
1.10	$2.25 \times 10^6$	2.93	90
1.10	$3.27 \times 10^6$	4.26	94
1.10	$4.30 \times 10^6$	5.79	109
1.25	$2.27 \times 10^6$	3.11	90
1.25	$3.29 \times 10^6$	4.52	94
1.25	$4.36 \times 10^6$	6.16	105
1.40	$2.23 \times 10^6$	3.18	90
1.40	$3.22 \times 10^6$	4.62	96
1.40	$4.25 \times 10^6$	6.32	111

BALANCE UTILIZED:	None		
	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	_____	_____	_____
SF	_____	_____	_____
AF	_____	_____	_____
PM	_____	_____	_____
RM	_____	_____	_____
YM	_____	_____	_____

COMMENTS:

TABLE II.

TEST: IABO		DATA SET RUN NUMBER COLLATION SUMMARY										DATE: 8 NOV 74				
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES								NO. OF RUNS	ANGLE-OF-ATTACK			
		$\alpha$	$\beta$	SR	SR	SR	SR	SR	SR	SR	SR		-4	0	4	
RE4001	OTS		B	N+	N	O	O	3.4	0.6					240	241	242
02								4.25	0.9					222	223	224
03									1.1					74	75	76
04									1.25					49	49	50
05									1.4					1	2	3
06				N+	N			3.4	0.6					243	244	245
07								4.25	0.9					225	226	227
08									1.1					77	78	79
09									1.25					51	52	53
10									1.4					4	5	6
11				N	N+			3.4	0.6					249	250	251
12								4.25	0.9					231	232	233
13									1.1					80	81	82
14									1.25					54	55	56
15									1.4					7	8	9
16				N	N-				0.9					234	235	236
17									1.1					83	84	85
V 18	V								1.25					57	58	59

36

1 7 13 19 25 31 37 43 49 55 61 67 73 76

SEE ATTACHED SHEET FOR COMPLETE COEFFICIENT SCHEDULES

COEFFICIENTS

$\alpha$  OR  $\beta$  \_\_\_\_\_

SCHEDULES \_\_\_\_\_

101 AR 11 101 AR 12 101 AR 13

TABLE II. - Continued.

TEST: IA80

DATA SET RUN NUMBER COLLATION SUMMARY

DATE: \_\_\_\_\_

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES								NO. OF RUNS	ANGLE-OF-ATTACK						
		$\alpha$	$\beta$	SR	B	SM	E	S	F	SE	RN		M						
REH019	$\Phi$ TS		B	N	N-	O	O				4.25	1.4					-4	0	4
20				N	N						3.4	0.6					10	11	12
21											4.25	0.9					246	247	248
22												1.1					228	229	230
23												1.25					86	87	88
24				↓	↓							1.4					60	61	62
25				N-	N							1.1					13	14	15
26				↓	↓							1.25					89	90	91
27				↓	↓					↓		1.4					63	64	65
28				OFF	OFF						3.4	0.6					16	17	18
29											4.25	0.9					237	238	239
30												1.1					219	220	221
31												1.25					69	70	71
32										↓		1.4					66	67	68
33											1.75	0.6					19	20	21
34											2.25	0.9					270	271	272
35												1.1					267	268	269
↓ 36	↓		↓	↓	↓	↓	↓	↓	↓	↓	↓	1.25					22	23	24
																	30	31	32

17177131925313743495561677376

$\alpha$  OR  $\beta$

SCHEDULES

COEFFICIENTS

IDVAR (1) IDVAR (2) NOV

TABLE II. - Continued.

TEST: IABO		DATA SET RUN NUMBER COLLATION SUMMARY										DATE:					
DATA SET IDENTIFIER	CONFIGURATION	SCHED.		PARAMETERS/VALUES								NO. OF RUNS	ANGLE-OF-ATTACK				
		$\alpha$	$\beta$	SRB	SSME	SEI	SEC	RN	M					MACH NO.	-4	0	4
RE4037	PTS		B	OFF	OFF	0	0	2.25	1.4						33	34	35
38				N	N			1.75	0.6						273	274	275
39								2.25	0.9						264	265	266
40				↓	↓			2.25	1.1						27	28	29
41				OFF	OFF			2.5	0.6						252	253	254
42								3.25	0.9						258	259	260
43									1.1						36	37	38
44									1.25						42	43	44
45				↓	↓			↓	1.4						45	46	47
46				N	N			2.5	0.6						255	256	257
47								3.25	0.9						261	262	263
48				↓	↓	↓	↓	3.25	1.1						39	40	41
49			0	OFF	OFF	8	4	4.25	V				92				
50			0	N	N				V				93				
51			B	OFF	OFF				0.98						112	113	114
52				N	N			↓	0.98						115	116	117
53				OFF	OFF			3.4	0.6						288	289	290
↓ 54	↓		↓	↓	↓	↓	↓	4.25	0.9						296	297	298
1 7 13 19 25 31 37 43 49 55 61 67 75 76																	
COEFFICIENTS IDVAR (1) IDVAR (2) NDV																	
$\alpha$ OR $\beta$																	
SCHEDULES																	

TABLE II. - Continued.

TEST: IA 80

DATA SET RUN NUMBER COLLATION SUMMARY

DATE:

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES										NO. OF RUNS	ANGLE-OF-ATTACK					
		$\alpha$	$\beta$	SRB	SSMB	SEI	SEO	RN	M											
RE4055	PTS		B	OFF	OFF	8	4	4.25	1.1									-4	0	4
56									1.25									100	107	108
57									1.4									94	95	96
58				N	N			3.4	0.6									100	101	102
59								4.25	0.9									291	292	293
60									1.1									299	300	301
61									1.25									109	110	111
62									1.4									97	98	99
63				N	N				0.98									103	104	105
64				OFF	OFF	8	-4	3.4	0.6									118	119	120
65								4.25	0.9									314	315	316
66									1.1									302	303	304
67									1.25									133	134	135
68									1.4									127	128	129
69				N	N			3.4	0.6									121	122	123
70								4.25	0.9									317	318	319
71									1.1									305	306	307
72									1.25									136	137	138
																		130	131	132

7

13

19

25

37

43

49

55

61

67

75

76

COEFFICIENTS

IDVAR (1) IDVAR (2) NDV

$\alpha$  OR  $\beta$

SCHEDULES

TEST RUN NUMBERS

TEST RUN NUMBERS



TABLE II. - Continued.

TEST: IA80		DATA SET RUN NUMBER COLLATION SUMMARY												DATE:				
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES								NO. OF RUNS	ANGLE-OF-ATTACK					
		$\alpha$	$\beta$	SAB	SSME	SEI	SEO	RN	M						-4	0	4	
RE4073	QTS		B	N	N	8	-4	4.25	1.4							124	125	126
74				OFF	OFF	8	0	3.4	0.6							276	277	278
75								4.25	0.9							282	283	284
76									1.1							153	154	155
77									1.25							147	148	149
78				↓	↓			↓	1.4							141	142	143
79				N	N			3.4	0.6							279	280	281
80								4.25	0.9							285	286	287
81									1.1							156	157	158
82									1.25							150	151	152
83				↓	↓	↓	↓	↓	1.4							144	145	146
84				OFF	OFF	8	2	3.4	0.6							326	327	328
85								4.25	0.9							320	321	322
86				↓	↓			↓	1.1							159	160	161
87				N	N			3.4	0.6							329	330	331
88								4.25	0.9							323	324	325
89				↓	↓	↓	↓	4.25	1.1							162	163	164
↓ 90	↓		↓	OFF	OFF	4	4	3.4	0.6							332	333	334

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS
IDVAR (1) IDVAR (2) NO.

$\alpha$  OR  $\beta$ 
SCHEDULES

TABLE II. - Continued.

TEST : <i>IA 80</i>		DATA SET RUN NUMBER COLLATION SUMMARY										DATE :									
DATA SET IDENTIFIER	CONFIGURATION	SCHED.		PARAMETERS/VALUES										NO. OF RUNS	ANGLE-OF-ATTACK						
		$\alpha$	$\beta$	SRB	SME	SEI	SEO	RN	DT												
<i>RE4091</i>	<i>OTS</i>		<i>B</i>	<i>OFF</i>	<i>OFF</i>	<i>4</i>	<i>4</i>	<i>4.25</i>	<i>0.9</i>							<i>338</i>	<i>339</i>	<i>340</i>			
<i>92</i>									<i>1.1</i>							<i>177</i>	<i>178</i>	<i>179</i>			
<i>93</i>									<i>1.25</i>							<i>171</i>	<i>172</i>	<i>173</i>			
<i>94</i>				<i>↓</i>	<i>↓</i>			<i>↓</i>	<i>1.4</i>							<i>165</i>	<i>166</i>	<i>167</i>			
<i>95</i>				<i>N</i>	<i>N</i>			<i>3.4</i>	<i>0.6</i>							<i>335</i>	<i>336</i>	<i>337</i>			
<i>96</i>								<i>4.25</i>	<i>0.9</i>							<i>341</i>	<i>342</i>	<i>343</i>			
<i>97</i>									<i>1.1</i>							<i>180</i>	<i>181</i>	<i>182</i>			
<i>98</i>									<i>1.25</i>							<i>174</i>	<i>175</i>	<i>176</i>			
<i>99</i>				<i>↓</i>	<i>↓</i>	<i>↓</i>	<i>↓</i>	<i>↓</i>	<i>1.4</i>							<i>168</i>	<i>169</i>	<i>170</i>			
<i>A0</i>				<i>OFF</i>	<i>OFF</i>	<i>0</i>	<i>4</i>	<i>3.4</i>	<i>0.6</i>							<i>344</i>	<i>345</i>	<i>346</i>			
<i>A1</i>								<i>4.25</i>	<i>0.9</i>							<i>350</i>	<i>351</i>	<i>352</i>			
<i>A2</i>									<i>1.1</i>							<i>195</i>	<i>196</i>	<i>197</i>			
<i>A3</i>									<i>1.25</i>							<i>189</i>	<i>190</i>	<i>191</i>			
<i>A4</i>				<i>↓</i>	<i>↓</i>			<i>↓</i>	<i>1.4</i>							<i>183</i>	<i>184</i>	<i>185</i>			
<i>A5</i>				<i>N</i>	<i>N</i>			<i>3.4</i>	<i>0.6</i>							<i>347</i>	<i>348</i>	<i>349</i>			
<i>A6</i>								<i>4.25</i>	<i>0.9</i>							<i>353</i>	<i>354</i>	<i>355</i>			
<i>A7</i>									<i>1.1</i>							<i>198</i>	<i>199</i>	<i>200</i>			
<i>A8</i>				<i>↓</i>	<i>↓</i>	<i>↓</i>	<i>↓</i>	<i>↓</i>	<i>1.25</i>							<i>192</i>	<i>193</i>	<i>194</i>			
		1	7	13	19	25	31	37	43	49	55	61	67	75	76						
COEFFICIENTS																			IDVAR (1)	IDVAR (2)	NDV
$\alpha$ OR $\beta$																					
SCHEDULES																					

TEST RUN NUMBERS

42

TABLE II. - Concluded.

DATASETS	IDVAR(1)	IDVAR(2)	COEFFICIENTS
RE40XX EE4XXX	ALPHA ALPHA	BETA BETA	CBMW, CTMW, CNW, CHEI, CHEO, CBMV, CTMV, CYV, CHR, MACH XWCP, YWCP, XVCP, ZVCP
AE4XXX	ALPHA	BETA	CP379, CP717, CP380, CP718, CP381, CP716, CP720, CP719, CP374, CP376
BE4XXX	ALPHA	BETA	CP2, CP4, CP6, CP8, CP12, CP14, CP18, CP20
CE4XXX	ALPHA	BETA	CP29, CP31, CP35, CP37, CP30, CP32, CP36, CP38
DE4XXX	ALPHA	BETA	CP76, CP78, CP80, CP82, CP75, CP77, CP79, CP81
FE4XXX	ALPHA	BETA	CP378, CP715, CP375, CP377, CP721, CP372, CP714, CP722, CP373, CP713
GE4XXX	ALPHA	BETA	CP723, CP371, CP370, CP724
HE4XXX	ALPHA	BETA	CP22, CP24, CP26, CP28, CP21, CP23, CP25, CP27
IE4XXX	ALPHA	BETA	CP13, CP17, CP19
JE4XXX	ALPHA	BETA	CP39, CP41, CP43, CP45, CP40, CP42, CP44, CP46
KE4XXX	ALPHA	BETA	CP47, CP49, CP53, CP55, CP48, CP50, CP54, CP56
LE4XXX	ALPHA	BETA	CP60, CP62, CP64, CP66, CP59, CP61, CP63, CP65
ME4XXX	ALPHA	BETA	CP68, CP70, CP72, CP74, CP67, CP69, CP71, CP73
RE4CXX	ALPHA	BETA	CP for pressure tap* 9, 10, 15, 16, 33, 34, 51, 54, 57, 58
RE4DXX	ALPHA	BETA	CP for pressure taps* 700, 702, 704, 706, 382, 384, 708, 710, 383, 385
RE4EXX	ALPHA	BETA	CP for pressure taps* 701, 703, 705, 707, 386, 388, 709, 711, 387, 389
RE4GXX	ALPHA	BETA	CP for pressure taps* 518, 805, 800, 521, 806, 801, 804, 807, 802, 515, 808, 803
RE4HXX	ALPHA	BETA	CP for pressure taps* 541, 810, 814, 821, 826, 815, 811, 816, 822, 827, 817, 823, 828, 832, 812, 818, 824, 829, 830, 833, 809, 813, 819, 820, 825, 831, 834
RE4IXX	ALPHA	BETA	CP for pressure taps* 841, 842, 843, 844

\* See TABLE IV for tap locations.

Table III Model Dimensional Data

MODEL COMPONENT: ATTACH STRUCTURE - AT 28

GENERAL DESCRIPTION: Rear orbiter to ET attach structure (LH and RH) (2 members)

MODEL SCALE: 0.020

MODEL DRAWING NO.: \_\_\_\_\_

DRAWING NO.: VL78-000063, VL78-000062B

DIMENSIONS:

MEMBER		FULL SCALE	MODEL SCALE
#1	X <sub>O</sub>	<u>1317.00</u>	<u>26.34</u>
	Y <sub>O</sub>	<u>- 96.50 (LH)</u>	<u>- 1.930</u>
		<u>96.50 (RH)</u>	<u>1.930</u>
	Z <sub>O</sub>	<u>267.50</u>	<u>5.350</u>
	X <sub>T</sub>	<u>2058.00</u>	<u>41.16</u>
	Y <sub>T</sub>	<u>-125.68 (LH)</u>	<u>- 2.514</u>
		<u>125.68 (RH)</u>	<u>2.514</u>
	Z <sub>T</sub>	<u>515.5</u>	<u>10.310</u>
#2	X <sub>O</sub>	<u>1317.00</u>	<u>26.34</u>
	Y <sub>O</sub>	<u>- 96.50 (LH)</u>	<u>- 1.930</u>
		<u>96.50 (RH)</u>	<u>1.930</u>
	Z <sub>O</sub>	<u>267.50</u>	<u>5.350</u>
	X <sub>T</sub>	<u>1872.00</u>	<u>37.44</u>
	Y <sub>T</sub>	<u>-125.68 (LH)</u>	<u>- 2.514</u>
		<u>125.68 (RH)</u>	<u>2.514</u>
	Z <sub>T</sub>	<u>504.5</u>	<u>10.090</u>
Diameter, In.	#1	<u>11.5</u>	<u>0.230</u>
	#2	<u>15.5</u>	<u>0.310</u>

Table III (Cont'd)

MODEL COMPONENT: ATTACH STRUCTURE - AT<sub>31</sub>

GENERAL DESCRIPTION: REAR ET to SRB attach structure (LH and RH). (3 members)

MODEL SCALE: 0.020

MODEL DRAWING: \_\_\_\_\_

DRAWING NO.: VL78-000063, -000062B, -000066

DIMENSIONS:	MEMBER	FULL SCALE	MODEL SCALE
X <sub>T</sub>	#1	2058.00	41.16
Y <sub>T</sub>		-171.50	- 3.430 (LH)
		171.50	3.430 (RH)
Z <sub>T</sub>	#1	457.00	9.140
X <sub>S</sub>		1511.00	41.16
Y <sub>S</sub>		53.24	1.064
Z <sub>S</sub>	#2	57.00	1.14
X <sub>T</sub>		2058.00	41.16
Y <sub>T</sub>		-163.85	- 3.277
Z <sub>T</sub>	#2	449.81	8.996
X <sub>S</sub>		1511.00	30.22
Y <sub>S</sub>		76.56	1.531
Z <sub>S</sub>	#3	15.73	0.315
X <sub>T</sub>		2058	41.16
Y <sub>T</sub>		-161.72	-3.234
Z <sub>T</sub>	#3	343.00	6.860
X <sub>S</sub>		1511.00	30.22
Y <sub>S</sub>		53.24	1.597
Z <sub>S</sub>	#3	- 57.00	-1.140
Diameter of members, In.:	#1	_____	_____
	#2	_____	_____
	#3	_____	_____

Table III (Cont'd)

MODEL COMPONENT: ATTACH STRUCTURE - AT 32

GENERAL DESCRIPTION: Forward orbiter/ET attach structure (2 members)

MODEL SCALE: 0.020

DRAWING NO.: VL78-000062B, Martin Marietta 8260020914

DIMENSIONS:		<u>MEMBER</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Member	#1			
		X <sub>O</sub>	<u>388.15</u>	<u>7.763</u>
		Y <sub>O</sub>	<u>0</u>	<u>0</u>
(Attach point on Orbiter Z <sub>T</sub> 614)		Z <sub>O</sub>	<u>LWR ML</u>	<u>LWR ML</u>
		X <sub>T</sub>	<u>1129.9</u>	<u>22.598</u>
		Y <sub>T</sub>	<u>46.50</u>	<u>9.300</u>
(Attach point on Tank)		Z <sub>T</sub>	<u>562.58</u>	<u>11.251</u>
	#2			
		X <sub>O</sub>	<u>388.15</u>	<u>7.763</u>
		Y <sub>O</sub>	<u>0</u>	<u>0</u>
		Z <sub>O</sub>	<u>LWR ML</u>	<u>LWR ML</u>
		X <sub>T</sub>	<u>1129.9</u>	<u>22.598</u>
		Y <sub>T</sub>	<u>-46.50</u>	<u>-0.930</u>
		Z <sub>T</sub>	<u>562.58</u>	<u>11.252</u>
Diameter, In.	#1		<u>6.00</u>	<u>0.120</u>
	#2		<u>6.00</u>	<u>0.120</u>

Table III (Cont'd)

MODEL COMPONENT : BODY B<sub>62</sub>

GENERAL DESCRIPTION : Configuration 140C orbiter fuselage, MCR 200-R4.

Similar to 140A/B fuselage except aft body revised and improved midbody-wing-boot fairing,  $X_0 = 940$  to  $X_0 = 1040$ .

MODEL SCALE: 0.020

DRAWING NUMBER: VL70-000140C, -000202C, -000205A  
-000200B, -000203

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (IML: Fwd Sta $X_0=238$ ), In.	1290.3	25.806
Length(OML: Fwd Sta $X_0=235$ ), In.	1293.3	25.866
Max Width (At $X_0 = 1528.3$ ), In.	264.0	5.280
Max Depth (At $X_0 = 1464$ ), In.	250.0	5.00
Fineness Ratio	4.899	4.899
Area - Ft <sup>2</sup>		
Max. Cross-Sectional	340.885	0.136
Planform		
Wetted		
Base		



Table III (Cont'd)

MODEL COMPONENT : CANOPY - C<sub>12</sub>

GENERAL DESCRIPTION : Configuration 140C orbiter canopy. Vehicle Cabin No. 31 updated to MCR 200-R4. Used with Fuselage B<sub>62</sub>.

MODEL SCALE: 0.020

DRAWING NUMBER : VL70-000140C, -000202B, -000204

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length( $X_o = 434.643$ to $578$ ), In.	<u>143.357</u>	<u>2.867</u>
Max Width (At $X_o = 513.127$ ), In.	<u>152.412</u>	<u>3.048</u>
Max Depth (At $Z_o = 501$ to $449.39$ ), In.	<u>51.61</u>	<u>1.032</u>
Fineness Ratio	<u>                    </u>	<u>                    </u>
Area	<u>                    </u>	<u>                    </u>
Max. Cross-Sectional	<u>                    </u>	<u>                    </u>
Planform	<u>                    </u>	<u>                    </u>
Wetted	<u>                    </u>	<u>                    </u>
Base	<u>                    </u>	<u>                    </u>

Table III (Cont'd)

MODEL COMPONENT: ELEVON - E<sub>52</sub>

GENERAL DESCRIPTION: Elevon for configuration 140C. Hingeline at  $X_c = 1387$ ,  
elevon split line  $X_w = 312.5$ . 6.0" gaps, beveled edges, and centerbodies.

MODEL SCALE: 0.020

DRAWING NUMBER: VL70-000140C, -006089, -006092, SS-A01260

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft <sup>2</sup>	<u>210.0</u>	<u>0.084</u>
Span (equivalent) , In.	<u>349.2</u>	<u>6.984</u>
Inb'd equivalent chord , In.	<u>118.0</u>	<u>2.360</u>
Outb'd equivalent chord , In.	<u>55.19</u>	<u>1.104</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.0</u>	<u>0.0</u>
Tailing Edge	<u>-10.056</u>	<u>-10.056</u>
Hingeline (Product of area & $\bar{c}$ )	<u>0.0</u>	<u>0.0</u>
Area Moment , Ft <sup>3</sup>	<u>1587.25</u>	<u>0.0127</u>
Mean Aerodynamic Chord, In.	<u>90.7</u>	<u>1.814</u>
Hingeline dihedral (origin at $Z_o = 261.3509$ ), deg.)	<u>5.229</u>	<u>5.229</u>

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Table III (Cont'd)

MODEL COMPONENT : BODY FLAP - F<sub>10</sub>

GENERAL DESCRIPTION : Configuration 140C body flap. Hingeline located  
at X<sub>0</sub> = 1532, Z<sub>0</sub> = 287.

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MODEL SCALE: 0.020

DRAWING NUMBER : VL70-000140C, -355114

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (X <sub>0</sub> = 1525.5 to 1613), In.	<u>87.50</u>	<u>1.750</u>
Max Width (At L. E., X <sub>0</sub> = 1525.5) In.	<u>256.00</u>	<u>5.12</u>
Max Depth (X <sub>0</sub> = 1532.0), In.	<u>19.798</u>	<u>0.594</u>
Fineness Ratio	<u></u>	<u></u>
Area - Ft <sup>2</sup>	<u></u>	<u></u>
Max. Cross-Sectional (At H. L.)	<u>35.196</u>	<u>0.0317</u>
Planform	<u>135.00</u>	<u>0.1215</u>
Wetted	<u></u>	<u></u>
Base (X <sub>0</sub> = 1613)	<u>4.89</u>	<u>0.0044</u>

Table III (Cont'd)

MODEL COMPONENT: FEEDLINE - FL<sub>10</sub>

GENERAL DESCRIPTION: LH<sub>2</sub> feedline on upper left-hand side of T<sub>28</sub>.

MODEL SCALE: 0.020

DRAWING NO.: VL78-000063, -000062B

DIMENSIONS:		<u>FULL SCALE</u>	<u>NNMODEL SCALE</u>
Leading edge at:	X <sub>T</sub>	2071.5	41.430
	Y <sub>T</sub>	- 70.00	-1.400
	Z <sub>T</sub>	573.934	11.479
Trailing edge at:	X <sub>T</sub>	2081.8	41.636
	Y <sub>T</sub>	- 70.00	-1.400
	Z <sub>T</sub>	584.059	11.681
Diameter of line (17.0 I. D.)		18.160	0.363

Table III (Cont'd)

MODEL COMPONENT: FEEDLINE - FL<sub>11</sub>

GENERAL DESCRIPTION: LO<sub>2</sub> feedline on upper right-hand of T<sub>28</sub>

MODEL SCALE: 0.020

DRAWING NUMBER: VL78-000063, -000062B

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X <sub>T</sub>	1000.667	20.013
	Y <sub>T</sub>	70.00	1.400
	Z <sub>T</sub>	150.519	3.010
Trailing edge at:	X <sub>T</sub>	2071.5	41.430
	Y <sub>T</sub>	70.00	1.400
	Z <sub>T</sub>	573.934	11.479
Diameter of line (17.0 I.D.)		18.16 O.D.	0.363

Table III (Cont'd)

MODEL COMPONENT: FAIRING - FR<sub>10</sub>

GENERAL DESCRIPTION: Umbilical door fairing between aft ET/Orbiter  
attach structure.

MODEL SCALE: 0.020

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X <sub>T</sub>	2052.0	41.04
Length		193.0	3.86
Width		15.00	0.300

Table III (Cont'd)

MODEL COMPONENT : OMS POD - M<sub>16</sub>

GENERAL DESCRIPTION : Configuration 140C orbiter OMS pod - short  
pod.

MODEL SCALE: 0.020

DRAWING NUMBER : VL70-008401, -008410

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta $X_0 = 1310.5$ ), In.	<u>258.50</u>	<u>5.170</u>
Max Width (At $X_0 = 1511$ ), In.	<u>136.8</u>	<u>2.736</u>
Max Depth (At $X = 1511$ ), In.	<u>74.70</u>	<u>1.474</u>
Fineness Ratio	<u>2.484</u>	<u>2.484</u>
Area - Ft <sup>2</sup>	<u></u>	<u></u>
Max. Cross-Sectional	<u>58.864</u>	<u>0.024</u>
Planform	<u></u>	<u></u>
Wetted	<u></u>	<u></u>
Base	<u></u>	<u></u>

Table III (Cont'd)

MODEL COMPONENT: MPS NOZZLES - N87GENERAL DESCRIPTION: Flow-through MPS nozzles.MODEL SCALE: 0.020DRAWING NUMBER: SS-A01279

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
MACH NO. 1.55, 2.0, 2.2, 2.6, 3.0, 3.5		
Length - In.		
Gimbal Point to Exit Plane	<u>157.0</u>	<u>3.140</u>
Throat to Exit Plane	<u>181.55</u>	<u>3.361</u>
Diameter - In.		
Exit	<u>90.435</u>	<u>1.809</u>
Throat	<u>23.350</u>	<u>0.467</u>
Inlet		
Area - ft <sup>2</sup>		
Exit	<u>44.607</u>	<u>0.178</u>
Throat	<u>2.974</u>	<u>0.00198</u>
Gimbal Point (Station) - In.		
Upper Nozzle		
X <sub>o</sub>	<u>1445.00</u>	<u>28.90</u>
Y <sub>o</sub>	<u>0.0</u>	<u>0.0</u>
Z <sub>o</sub>	<u>443.00</u>	<u>8.86</u>
Lower Nozzles		
X <sub>o</sub>	<u>1468.17</u>	<u>29.363</u>
Y <sub>o</sub>	<u>±53.0</u>	<u>±1.06</u>
Z <sub>o</sub>	<u>342.64</u>	<u>6.853</u>
Null Position - Deg.		
Upper Nozzle		
Pitch	<u>16</u>	<u>16</u>
Yaw	<u>0</u>	<u>0</u>
Lower Nozzle		
Pitch	<u>10</u>	<u>10</u>
Yaw	<u>0</u>	<u>0</u>



Table III (Cont'd)

MODEL COMPONENT: SRB NOZZLE - N<sub>88</sub>

GENERAL DESCRIPTION: Flow-through SRB nozzle simulator = 7.0 prototype.

MODEL SCALE: 0.020

DRAWING NUMBER: SS-A01281

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
MACH NO. 1.55, 2.0, 2.2, 2.6, 3.0, 3.5		
Length - In.		
Gimbal Point to Exit Plane	<u>86.8</u>	<u>1.736</u>
Throat to Exit Plane	<u>112.135</u>	<u>2.243</u>
Diameter - In.		
Exit	<u>114.290</u>	<u>2.886</u>
Throat	<u>64.53</u>	<u>1.291</u>
Inlet		
Area - ft <sup>2</sup>		
Exit	<u>356.738</u>	<u>0.143</u>
Throat	<u>22.712</u>	<u>0.009</u>
Gimbal Point (Station) - In.		
X <sub>B</sub>	<u>1902.6</u>	<u>38,052</u>
Y <sub>B</sub>	<u>250.2</u>	<u>5.010</u>
Z		
Lower Nozzles		
X		
Y		
Z		
Null Position - Deg.		
Pitch	<u>0</u>	<u>0</u>
Yaw	<u>0</u>	<u>0</u>
Lower Nozzle		
Pitch		
Yaw		

Table III (Cont'd)

MODEL COMPONENT: OMS NOZZLES - N<sub>89</sub>

GENERAL DESCRIPTION: OMS nozzle in stowed position which is outboard 8 deg. and down 7 deg. from null position. Use with M<sub>16</sub>.

MODEL SCALE: 0.020

DRAWING NUMBER: SS-A01279

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane	<u>56.0</u>	<u>1.12</u>
Throat to Exit Plane	<u>          </u>	<u>          </u>
Diameter - In.		
Exit (.O.D.)	<u>50.0</u>	<u>1.00</u>
Throat	<u>          </u>	<u>          </u>
Inlet	<u>          </u>	<u>          </u>
Area - ft <sup>2</sup>		
Exit	<u>          </u>	<u>          </u>
Throat	<u>          </u>	<u>          </u>
Gimbal Point (Station) - In.		
X <sub>0</sub>	<u>1518.00</u>	<u>30.360</u>
Y <sub>0</sub>	<u>88.00</u>	<u>1.76</u>
Z <sub>0</sub>	<u>492.0</u>	<u>9.84</u>
Lower Nozzles		
X	<u>          </u>	<u>          </u>
Y	<u>          </u>	<u>          </u>
Z	<u>          </u>	<u>          </u>
Null Position - Deg.		
Pitch	<u>15°49'</u>	<u>15°49'</u>
Yaw	<u>6°30'</u>	<u>6°30'</u>
Lower Nozzle		
Pitch	<u>          </u>	<u>          </u>
Yaw	<u>          </u>	<u>          </u>

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Table III (Cont'd)

MODEL COMPONENT: NOZZLES - N<sub>104</sub>

GENERAL DESCRIPTION: Flow-through MPS nozzles with gimbal capability.

Same as N<sub>87</sub>, except that these nozzles have contoured interior, the exterior same as N<sub>87</sub> when shroud is attached.

MODEL SCALE: 0.020

DRAWING NUMBER: SS-A01261

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane	<u>157.00</u>	<u>3.14</u>
Throat to Exit Plane	<u>119.69</u>	<u>2.374</u>
Diameter - In.		
Exit	<u>90.435</u>	<u>1.809</u>
Throat	<u>30.140</u>	<u>0.603</u>
Inlet		
Area - ft <sup>2</sup>		
Exit	<u>44.607</u>	<u>0.0178</u>
Throat	<u>4.955</u>	<u>0.00198</u>
Gimbal Point (Station) - In.		
Upper Nozzle		
X <sub>0</sub>	<u>1445.00</u>	<u>28.90</u>
Y <sub>0</sub>	<u>0.0</u>	<u>0.0</u>
Z <sub>0</sub>		
Lower Nozzles		
X <sub>0</sub>	<u>1468.17</u>	<u>29.3634</u>
Y <sub>0</sub>	<u>53.0</u>	<u>1.06</u>
Z <sub>0</sub>	<u>342.64</u>	<u>6.853</u>
Null Position - Deg.		
Upper Nozzle		
Pitch	<u>16</u>	<u>16</u>
Yaw	<u>0</u>	<u>0</u>
Lower Nozzle		
Pitch	<u>10</u>	<u>10</u>
Yaw	<u>30</u>	<u>30</u>
	OUTB'D 30°	OUTB'D 30°

Table III (Cont'd)

MODEL COMPONENT : ELECTRICAL TUNNEL - PS<sub>11</sub>

GENERAL DESCRIPTION : Tunnel running longitudinally on the SRB for  
electrical wires.

MODEL SCALE: 0.020

DRAWING NUMBER: VC77-000002

DIMENSIONS :	FULL SCALE	MODEL SCALE
Width, In.	<u>5.70</u>	<u>0.114</u>
Radius, In.	<u>5.70</u>	<u>0.114</u>
Height, In	<u>4.70</u>	<u>0.094</u>
L.E. at Sta.	<u>494.70</u>	<u>9.894</u>
L.E. sweepback angle, Deg.	<u>30.0</u>	<u>30.0</u>
Max. Cross-Sectional	<u>          </u>	<u>          </u>
Planform	<u>          </u>	<u>          </u>
Wetted	<u>          </u>	<u>          </u>
Base	<u>          </u>	<u>          </u>

Table III (Cont'd)

MODEL COMPONENT: ELECTRICAL TUNNEL - PS<sub>12</sub>

GENERAL DESCRIPTION: Four ring stiffeners located at the aft end of the solid rocket boosters. The stiffener is a curved I-beam.

MODEL SCALE: 0.020

DRAWING NO.: VC77-000002

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Height, In.		2.5	0.050
Length, In.		2.0	0.04
Locations:	$X_B =$	1602.00	32.04
		1644.00	32.88
		1729.00	34.58
		1771.00	35.42

Table III (Cont'd)

MODEL COMPONENT: CIRCUMFERENTIAL STIFFENER - PS<sub>13</sub>

GENERAL DESCRIPTION: Ring stiffener located at the point where the skirt flares. The stiffener is I-beam.

MODEL SCALE: 0.020

DRAWING NO.: VC77-000002

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Height, In.		6.50	0.130
Length, In.		4.00	0.080
Location centerline	X <sub>B</sub>	1833.70	36.674

Table III (Cont'd)

MODEL COMPONENT: SOLID ROCKET BOOSTER - EXTERNAL TANK  
ATTACH - PS<sub>14</sub>

GENERAL DESCRIPTION: Two-ring stiffeners located at aft end of  
solid rocket boosters. The stiffener is curved I-beam.

MODEL SCALE: 0.020

DRAWING NO.: VC77-000002

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Height, In.		8.00	0.160
Length, In.		3.00	0.060
Location centerline	X <sub>B</sub>	1511.00	30.22

Table III (Cont'd)

MODEL COMPONENT: SRB PROTUBERANCES - PS<sub>17</sub>

GENERAL DESCRIPTION: Electrical connecting box mounted on top of PS<sub>14</sub>.

MODEL SCALE: 0.020

DRAWING NO.: None

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Width, In.	60.00	1.200
Depth, In.	17.5	0.350

Centerline of box located 15 deg inboard from vertical plane of symmetry.



Table III (Cont'd)

MODEL COMPONENT: SRB PROTUBERANCE - PS<sub>18</sub>

GENERAL DESCRIPTION: Tie-down fixtures mounted on the aft skirt. Total of four founted 30 deg. on both sides of vertical plane of symmetry.

MODEL SCALE: 0.020

DRAWING NO.: None

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Sta. of leading edge ( $X_B$ )	1861.2	37.224
Sta. of Trailing Edge ( $X_B$ )	1925.2	38.504
Max. width, In.	14.2	0.284
Height, In.	8.3	0.166

Table III (Cont'd)

MODEL COMPONENT: SRB PROTUBERANCES - PS<sub>19</sub>

GENERAL DESCRIPTION: Aft separation motor pod mounted on aft skirt  
at 20 deg. inboard from top vertical plane of symmetry.

MODEL SCALE: 0.020

DRAWING NO.: None

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Width, In.	14.0	0.280
Height, In. (at Trailing edge)	19.0	0.380
Sweepback of leading edge, deg.	15.0	15.0

Table III (Cont'd)

MODEL COMPONENT: ET PROTUBERANCE - PT<sub>12</sub>

GENERAL DESCRIPTION: Lightning rod attached to ET nose.

MODEL SCALE: 0.020

DRAWING NO.: VL78-000068A

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length	30.90	0.618
Diameter, In.	3.20	0.096

Table III (Cont'd)

MODEL COMPONENT: ELECTRICAL LINE - PT<sub>22</sub>

GENERAL DESCRIPTION: Left-hand electrical conduit line on T<sub>28</sub>.

MODEL SCALE: 0.020

DRAWING NO.: VL78-000063, VL78-000062B

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X <sub>T</sub>	1084.333	21.687
	Y <sub>T</sub>	- 99.591	- 1.992
	Z <sub>T</sub>	-139.620	- 2.794
Trailing edge at:	X <sub>T</sub>	2058.00	41.16
	Y <sub>T</sub>	- 99.491	-1.992
	Z <sub>T</sub>	-139.620	-2.794
Conduit size:		2.0 x 6.0	0.04 x 0.12
Centerline of line located radially at $\phi = 35.5$ deg.			

Table III (Cont'd)

MODEL COMPONENT:  $\text{LO}_2$  RECIRCULATION LINE -  $\text{PT}_{23}$

GENERAL DESCRIPTION:  $\text{LO}_2$  recirculation line on right-hand upper side  
of  $\text{T}_{28}$ .

MODEL SCALE: 0.020

DRAWING NO.: VL78-000063, -000062B , Martin Marietta 82600207000

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	$X_T$	1040.667	20.813
	$Y_T$	94.169	1.883
	$Z_T$	540.934	11 11.817
Trailing edge at:	$X_T$	2062.920	41.258
	$Y_T$	70.00	1.40
	$Z_T$	573.934	11.479
Diameter of line		4.00	0.080
Centerline of lines located radially at $\phi = 33^\circ 45'$			
(Right of TDC looking forward).			

Table III (Cont'd)

MODEL COMPONENT: LH<sub>2</sub> RECIRCULATION LINE - PT<sub>24</sub>

GENERAL DESCRIPTION: LH<sub>2</sub> recirculation line on T<sub>28</sub>.

MODEL SCALE: 0.020

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X <sub>T</sub>	1040.667	20.813
	Y <sub>T</sub>	- 94.169	-1.883
	Z <sub>T</sub>	540.934	11.819
Trailing edge at:	X <sub>T</sub>	2062.920	41.258
	Y <sub>T</sub>	- 70.00	-1.400
	Z <sub>T</sub>	573.934	11.479
Diameter of line		4.0	0.080
Centerline of line located radially at $\phi = 33^{\circ}45'$			
(Left of TDL looking forward).			

Table III (Cont'd)

MODEL COMPONENT: ELECTRICAL LINE - PT<sub>25</sub>

GENERAL DESCRIPTION: Right-hand aft electrical conduit line on T<sub>28</sub>  
with LH<sub>2</sub> pressure sensor line and LOX vent valve actuator line.

MODEL SCALE: 0.020

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X <sub>T</sub>	1084.333	21.687
	Y <sub>T</sub>	99.591	1.992
	Z <sub>T</sub>	139.620	2.792
Trailing edge at:	X <sub>T</sub>	2058.000	41.16
	Y <sub>T</sub>	99.591	1.992
	Z <sub>T</sub>	139.620	2.792
Conduit size		2.0 x 6.0	0.04 x 0.12
Centerline of line located radially at $\phi = 35.5$ deg.			

Table III (Cont'd)

MODEL COMPONENT: LOX PRESSURE LINE - PT<sub>26</sub>

GENERAL DESCRIPTION: LOX pressure line on the T<sub>28</sub>.

MODEL SCALE: 0.020

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X <sub>T</sub>	36 .733	7.215
	Y <sub>T</sub>	15.145	0.303
	Z <sub>T</sub>	407.718	8.154
Trailing edge at:	X <sub>T</sub>	2083.5	41.670
	Y <sub>T</sub>	63.25	1.265
	Z <sub>T</sub>	609.00	12.180
Line diameter		2.0	0.040
Centerline of line located radially at $\phi = 27$ deg.			



Table III (Cont'd)

MODEL COMPONENT: ELECTRICAL LINE - PT<sub>27</sub>

GENERAL DESCRIPTION: Electrical conduit on the right-hand forward section of T<sub>28</sub>.

MODEL SCALE: 0.020

DRAWING NO.: VL78-000062B

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X <sub>T</sub>	360.733	7.215
	Y <sub>T</sub>	11.549	0.231
	Z <sub>T</sub>	412.474	8.250
Trailing edge at:	X <sub>T</sub>	876.273	17.525
	Y <sub>T</sub>	226.114	4.522
	Z <sub>T</sub>	646.774	12.935

Centerline of conduit located radially at  $\phi = 47.5$  deg.

Table III (Cont'd)

MODEL COMPONENT: RUDDER - R<sub>5</sub>

GENERAL DESCRIPTION: Configuration 140C orbiter rudder (identical to configuration A/B rudder)

MODEL SCALE: 0.020

DRAWING NUMBER: VL70-000146B, -000095

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft <sup>2</sup>	<u>100.15</u>	<u>0.004</u>
Span (equivalent) - In.	<u>201.00</u>	<u>4.020</u>
Inb'd equivalent chord - In.	<u>91.585</u>	<u>1.832</u>
Outb'd equivalent chord - In.	<u>50.833</u>	<u>1.017</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>          </u>	<u>          </u>
Tailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline (Product of area & $\bar{c}$ )	<u>34.83</u>	<u>34.83</u>
Area Moment , Ft <sup>3</sup>	<u>610.92</u>	<u>0.0049</u>
Mean Aerodynamic Chord, In.	<u>73.2</u>	<u>1.464</u>

Table III (Cont'd)

MODEL COMPONENT : BOOSTER SOLID ROCKET MOTOR - S<sub>22</sub>

GENERAL DESCRIPTION : The BSRM is an external propulsion system  
which is jettisoned and recoverable after burnout. The BSRM's can  
be refurbished and reused after recovery.

MODEL SCALE: 0.020

DRAWING NUMBER : VC77-000002C, VC70-000002A, VC72-000002C

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length - In.	<u>1789.60</u>	<u>35.792</u>
Max Width( Tank Dia. ), In.	<u>146.00</u>	<u>2.92</u>
Max Depth (Aft Shroud Dia. ), In.	<u>208.20</u>	<u>4.164</u>
Fineness Ratio	<u>8.596</u>	<u>8.596</u>
Area - Ft <sup>2</sup>	<u>                    </u>	<u>                    </u>
Max. Cross-Sectional	<u>236.423</u>	<u>0.095</u>
Planform	<u>                    </u>	<u>                    </u>
Wetted	<u>                    </u>	<u>                    </u>
Base	<u>                    </u>	<u>                    </u>
WP of BSRM Centerline (X <sub>T</sub> )	400.00	8.00
FS of BSRM nose (X <sub>T</sub> )	743.0	14.86
BP of BSRM centerline (X <sub>T</sub> )	250.5	5.010

Table III (Cont'd)

MODEL COMPONENT : EXTERNAL TANK - T<sub>28</sub>

GENERAL DESCRIPTION : \_\_\_\_\_

NOTE: Dimensions are to tank structural OML, TPS not included).

MODEL SCALE: 0 020

DRAWING NUMBER: VL72-000143D, VL78-000063

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length - In.	<u>1844.275</u>	<u>36.886</u>
Max <del>Width</del> <sup>Wet</sup> Dia. - In.	<u>331.00</u>	<u>6.62</u>
Max Depth	<u>          </u>	<u>          </u>
Fineness Ratio	<u>5.687</u>	<u>5.687</u>
Area - Ft <sup>2</sup>	<u>          </u>	<u>          </u>
Max. Cross-Sectional	<u>594.678</u>	<u>0.239</u>
Planform	<u>          </u>	<u>          </u>
Wetted	<u>          </u>	<u>          </u>
Base	<u>          </u>	<u>          </u>

Table III (Cont'd)

MODEL COMPONENT: VERTICAL - V<sub>g</sub>GENERAL DESCRIPTION: Configuration 140C orbiter vertical tail(identical to configuration 140A/B vertical tail).MODEL SCALE: 0.020DRAWING NUMBER: VL70-000140C, -000146B

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
TOTAL DATA		
Area (Theo) - Ft <sup>2</sup>		
Planform	<u>413.253</u>	<u>0.165</u>
Span (Theo) - In.	<u>315.72</u>	<u>6.314</u>
Aspect Ratio	<u>1.675</u>	<u>1.675</u>
Rate of Taper	<u>0.507</u>	<u>0.507</u>
Taper Ratio	<u>0.404</u>	<u>0.404</u>
Sweep-Back Angles, Degrees.		
Leading Edge	<u>45.00</u>	<u>45.00</u>
Trailing Edge	<u>26.25</u>	<u>26.25</u>
0.25 Element Line	<u>41.13</u>	<u>41.13</u>
Chords:		
Root (Theo) WP	<u>268.50</u>	<u>5.370</u>
Tip (Theo) WP	<u>108.47</u>	<u>2.169</u>
MAC	<u>199.81</u>	<u>3.996</u>
Fus. Sta. of .25 MAC	<u>1463.35</u>	<u>29.267</u>
W.P. of .25 MAC	<u>635.52</u>	<u>12.710</u>
B.L. of .25 MAC	<u>0.0</u>	<u>0.0</u>
Airfoil Section		
Leading Wedge Angle - Deg.	<u>10.00</u>	<u>10.0</u>
Trailing Wedge Angle - Deg.	<u>14.92</u>	<u>14.92</u>
Leading Edge Radius	<u>2.00</u>	<u>0.04</u>
Void Area	<u>13.17</u>	<u>0.0053</u>
Blanketed Area	<u>0.0</u>	<u>0.0</u>

Table III (Conl'd)

MODEL COMPONENT: <u>WING-W<sub>116</sub></u>		
GENERAL DESCRIPTION: <u>NOTE: Identical to W<sub>114</sub> except airfoil thickness. Dihedral angle is along trailing edge of wing. Geometric twist = 0.</u>		
MODEL SCALE: 0.020		
TEST NO.	DWG. NO. <u>VL70-000140A, -000200</u>	
DIMENSIONS:	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
<u>TOTAL DATA</u>		
Area (Theo.) Ft <sup>2</sup>	2690.00	1.076
Planform	936.68	18.734
Span (Theo) In.	2.265	2.265
Aspect Ratio	1.177	1.177
Rate of Taper	0.200	0.200
Taper Ratio	3.500	3.500
Dihedral Angle, degrees	0.500	0.500
Incidence Angle, degrees		
Aerodynamic Twist, degrees		
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	10.056	10.056
0.25 Element Line	35.209	35.209
Chords:		
Root (Theo) B.P.O.O.	689.24	13.785
Tip, (Theo) B.P.	137.85	2.757
MAC	474.81	9.496
Fus. Sta. of .25 MAC	1136.83	22.737
W.P. of .25 MAC	290.58	5.812
B.L. of .25 MAC	182.13	3.643
<u>EXPOSED DATA</u>		
Area (Theo) Ft <sup>2</sup>	1751.50	0.701
Span, (Theo) In. BP108	720.68	14.4136
Aspect Ratio	2.059	2.059
Taper Ratio	0.245	0.245
Chords		
Root BP108	562.09	11.242
Tip 1.00 $\frac{b}{2}$	137.85	2.757
MAC	392.83	7.856
Fus. Sta. of .25 MAC	1185.98	23.720
W.P. of .25 MAC	294.30	5.886
B.L. of .25 MAC	251.77	5.035
Airfoil Section (Rockwell Mod NASA)		
XXXX-64		
Root $\frac{b}{2}$ =	0.113	0.113
Tip $\frac{b}{2}$ =	0.120	0.120
Data for (1) of (2) Sides		
Leading Edge Cuff		
Planform Area Ft <sup>2</sup>	113.18	0.045
Leading Edge Intersects Fus M. L. @ Sta	500.00	10.00
Leading Edge Intersects Wing @ Sta	1024.00	20.480

TABLE IV. - PRESSURE TAP NUMBER ASSIGNMENTS

ORBITER FUSELAGE

X <sub>o</sub> STA	Z <sub>o</sub> W.L	Tap LH	No. RH	X <sub>o</sub> STA	Z <sub>o</sub> WL	Tap LH	No RH	X <sub>o</sub> STA	Z <sub>o</sub> WL	Tap LH	No RH
7.60	7.08	—	2	17.90	7.54	21	22	27.62	6.72	75	76
8.24	7.08	—	6	18.30	7.54	25	26	28.02	6.72	79	80
7.60	7.26	—	4	17.90	7.76	23	24	27.62	6.98	77	78
8.24	7.26	—	8	18.30	7.76	27	28	28.02	6.98	81	82
15.08	7.54	—	12	19.70	7.54	39	40	26.84	6.72	59	60
15.48	7.54	17	18	20.10	7.54	43	44	27.08	6.72	63	64
15.08	7.76	13	14	19.70	7.76	41	42	26.84	6.86	61	62
15.48	7.76	19	20	20.10	7.76	45	46	27.08	6.86	65	66
18.48	7.02	29	30	22.36	7.54	47	48	27.40	6.18	67	68
18.90	7.02	35	36	22.76	7.54	53	54	27.54	6.18	71	72
18.48	7.24	31	32	22.36	7.76	49	50	27.40	6.28	69	70
18.90	7.24	37	38	22.76	7.76	55	56	27.54	6.28	73	74

ORB. FUS. RADIAL LOCATIONS

φ X <sub>o</sub>	11.40	15.20	18.84	22.50	26.14
120	10	16	34	52	58
240	9	15	33	51	57

ORB. BODY FLAP - UPPER SURFACE

X <sub>o</sub>	Y <sub>o</sub> (B.L.)				
STA	-1.89	-0.82	0.0	0.82	1.89
31.10	700	704	382	708	383
31.80	702	706	384	710	385

ORB. BODY FLAP - LWR SURFACE

X <sub>o</sub>	Y <sub>o</sub> (B.L.)				
STA	-1.89	-0.82	0.0	0.82	1.89
31.10	701	705	386	709	387
31.80	703	707	388	711	389

TABLE IV. - Concluded.

ORBITER BASE

Y <sub>O</sub> BL	Z <sub>O</sub> WL	Tap No.
-2.30	6.59	379
-.438	6.10	717
0.00	6.59	380
.438	6.10	718
2.30	6.59	381
-2.30	7.15	716
0.00	7.15	720
2.30	7.15	719
-2.30	8.00	374

Y <sub>O</sub> BL	Z <sub>O</sub> WL	Tap No.
0.00	7.72	376
2.30	8.00	378
-2.09	8.38	715
-.87	8.21	375
.87	8.21	377
2.09	8.38	721
-2.45	8.88	372
-1.73	8.70	714
1.73	8.70	722

Y <sub>O</sub> BL	Z <sub>O</sub> WL	Tap No.
2.45	8.88	373
-1.77	9.18	713
1.77	9.18	723
-1.00	10.0	371
1.00	10.0	370
1.9	9.92	724

EXTERNAL TANK

X <sub>T</sub> STA	φ DEG.							
	0	45	90	135	180	225	270	315
19.0		800		801		802		803
38.0	518		521		804		515	
41.16	805		806		807		808	

ET BASE

R/ ROD	φ							
	0	45	90	135	180	225	270	315
0	541							
0.45							809	
.635	810		811		812		813	
.840	814	815	816	817	818		819	820
.895	821		822	823	824			825
.946	826		827	828	829	830		831
1.00				832		833		834

SRB (Inside Skirt)

X <sub>R</sub> STA	φ			
	0	90	180	270
380	841	842	843	844



# Notes

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

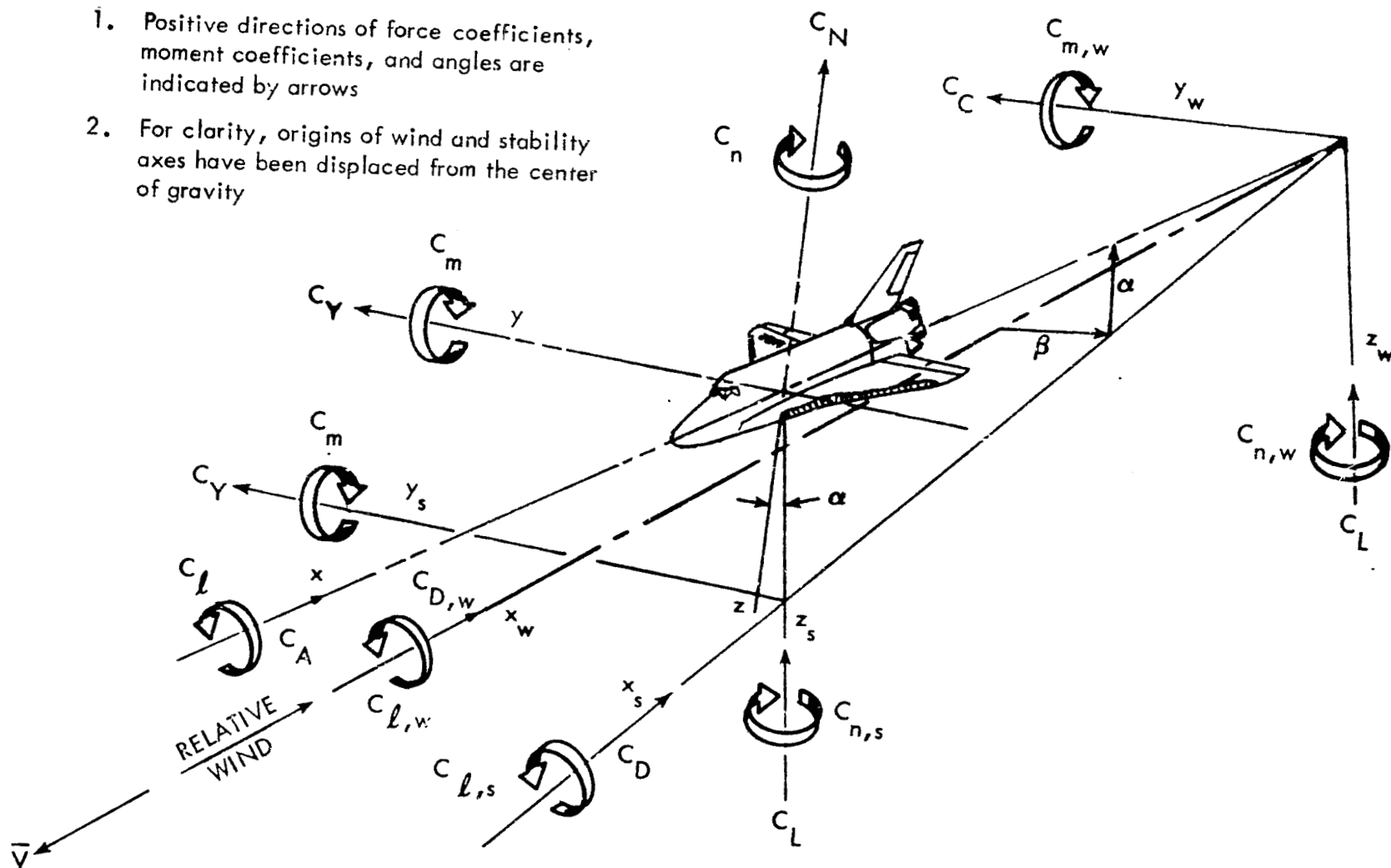


Figure 1. - Axis systems.

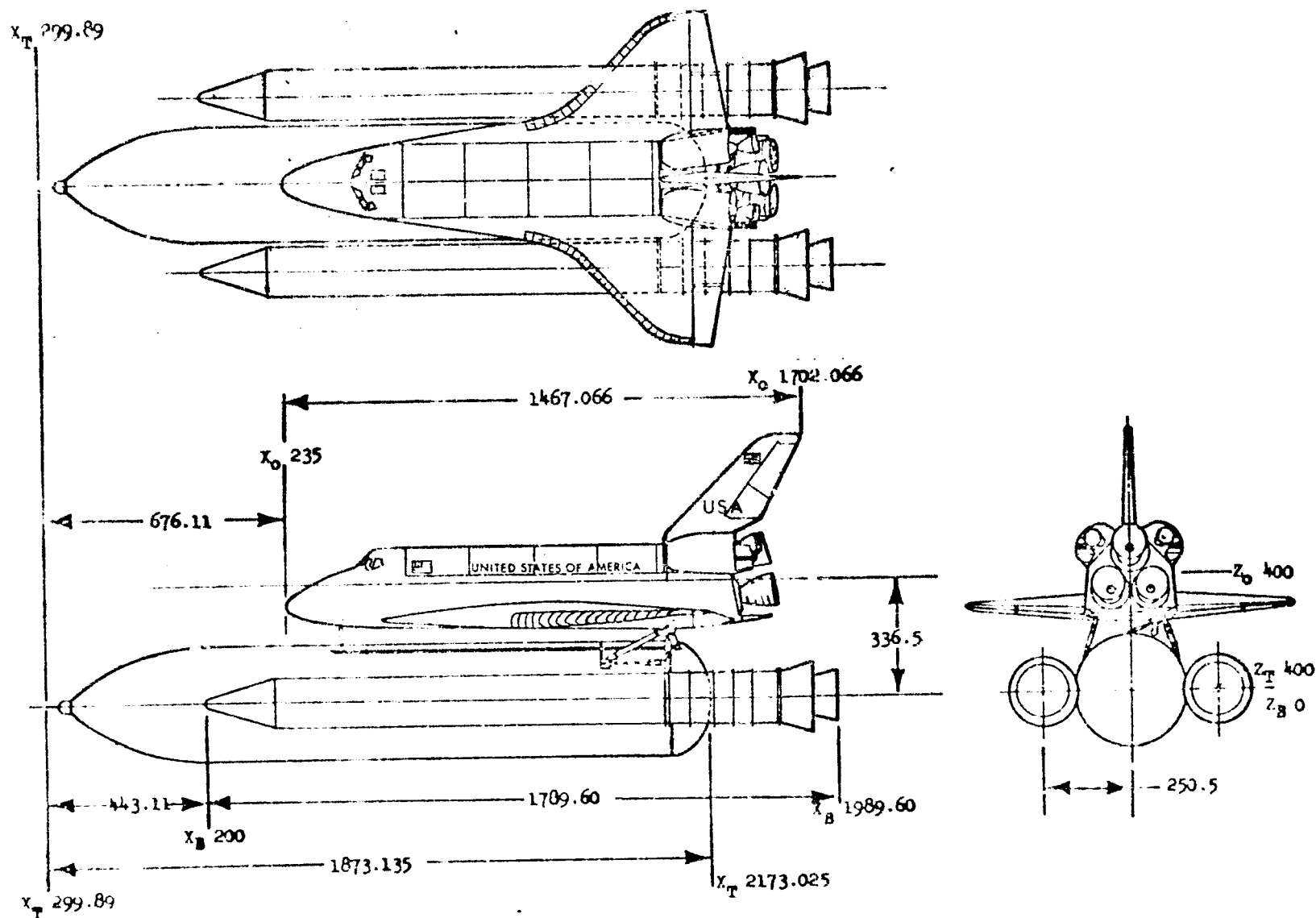
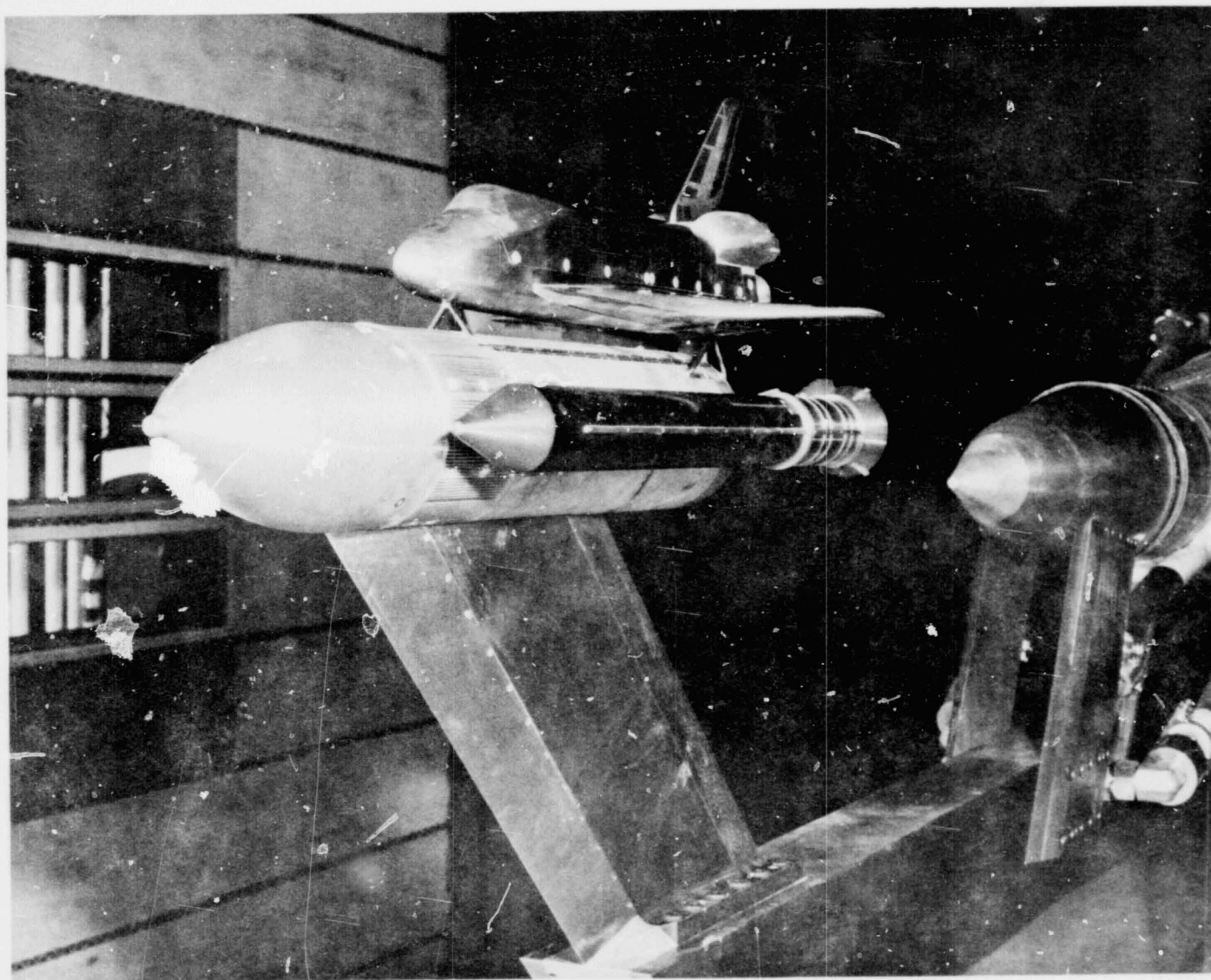
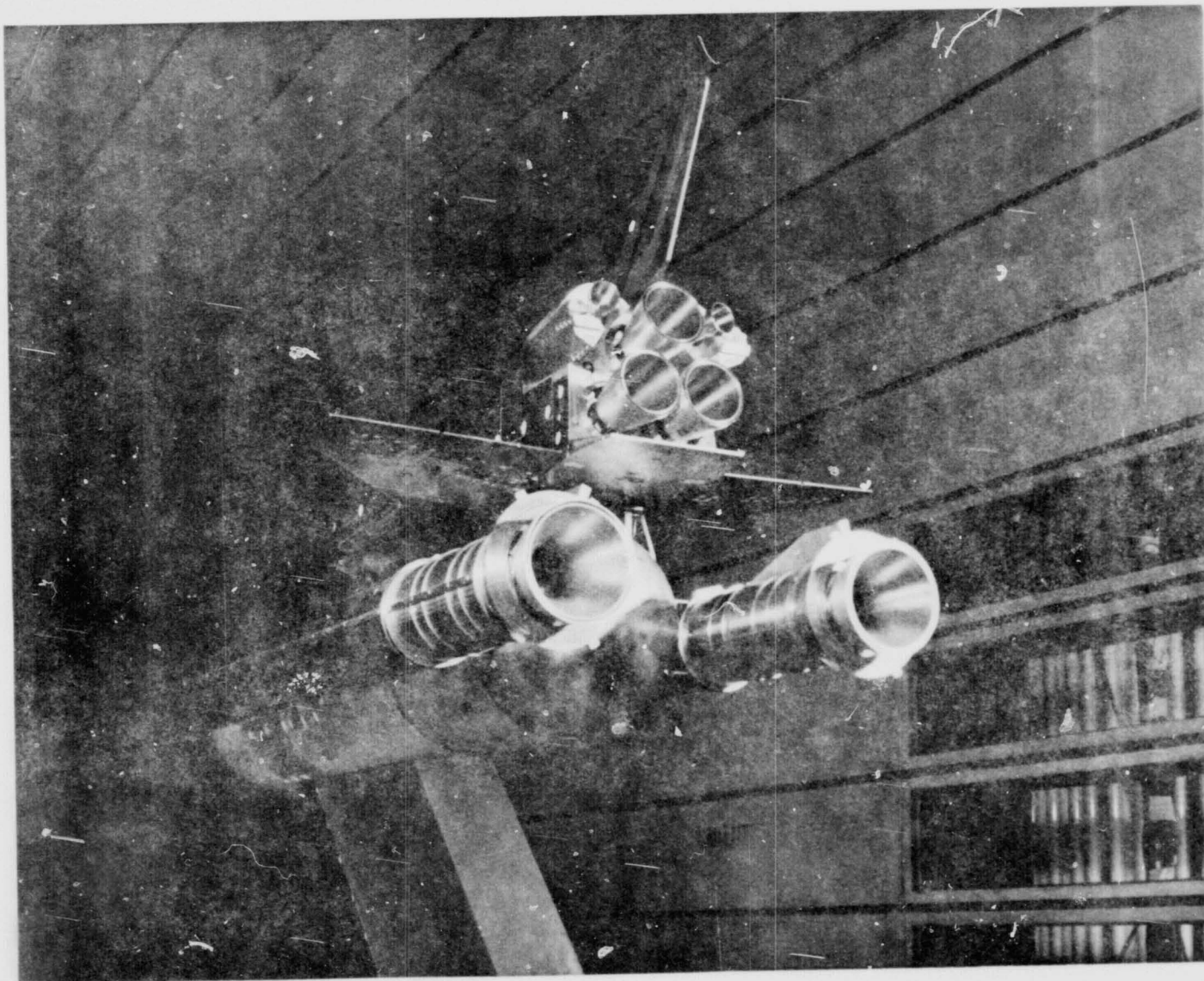


Figure 2. - Integrated space shuttle vehicle launch configuration.



a. Model 88-OTS Installation, Front View

Figure 3. - Model photographs.



b. Model 88-OTS Installation, Rear View

Figure 3. - Concluded.

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APPENDIX  
TABULATED SOURCE DATA

Tabulations of plotted data are available on request from  
Data Management Services

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

PAGE 1

ARC11-0231A80 OTS(SRB=N++ ORB=N ) ORB FUSE

(RE4C01) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-0B = .000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -4.013 BETA ( 1 ) = -.019 MACH = .59860 RN/L = 3.3812 PO = 2110.5 P = 1656.4

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3320 -.3743  
.407 -.0469 -.0481  
.548 -.0140 -.0161  
.690 -.0241 -.0306  
.831 -.0409 -.0259

ALPHA ( 2 ) = -.314 BETA ( 1 ) = -4.034 MACH = .59953 RN/L = 3.3878 PO = 2110.3 P = 1655.0

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3202 -.4659  
.407 -.0999 -.1068  
.548 -.0982 -.0698  
.690 -.1052 -.1007  
.831 -.2703 -.2392

ALPHA ( 2 ) = -.340 BETA ( 2 ) = -.019 MACH = .59953 RN/L = 3.3878 PO = 2110.3 P = 1655.0

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3577 -.4015  
.407 -.0695 -.0729  
.548 -.0389 -.0419  
.690 -.0503 -.0597  
.831 -.0285 -.0275

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TABULATED SOURCE DATA - 1A80

PAGE 2

ARC11-0231A80 OTS(SRB=N++ ORB=N )

ORB FUSE

(RE4C01)

ALPHA ( 2 ) = -.459 BETA ( 3 ) = 3.997 MACH = .59953 RN/L = 3.3878 PO = 2110.3 P = 1655.0

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4069 -.3481

.407 -.1088 -.0941

.548 -.0732 -.1017

.690 -.0908 -.1017

.831 -.2092 .2894

ALPHA ( 3 ) = 4.039 BETA ( 1 ) = -.019 MACH = .59860 RN/L = 3.3874 PO = 2109.8 P = 1655.9

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3892 -.4231

.407 -.1058 -.1088

.548 -.0808 -.0947

.690 -.1062 -.1144

.831 .0276 .0430

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TABULATED SOURCE DATA - 1A80

PAGE 3

ARC11-0231A80 OTS(SRB=N++ ORB=N ) OR3 FUSE

(RE4C02) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-IB = .000 ELV-OB = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.901 BETA ( 1 ) = -.012 MACH = .90550 RN/L = 4.2328 PC = 2108.4 P = 1239.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8361 -.7527  
.407 .0230 .0244  
.548 .0358 .0398  
.690 .0174 .0335  
.831 .1088 .0838

ALPHA ( 2 ) = -3.347 BETA ( 2 ) = -4.025 MACH = .90060 RN/L = 4.2176 PC = 2106.2 P = 1244.5

SECTION ( 2 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7110 -.8993  
.407 -.0517 .0029  
.548 -.0645 -.0209  
.690 -.1611 -.0526  
.831 .2640 -.0373

ALPHA ( 3 ) = -3.390 BETA ( 3 ) = -4.009 MACH = .90060 RN/L = 4.2176 PC = 2106.2 P = 1244.5

SECTION ( 3 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8054 -.7291  
.407 .0236 .0242  
.548 .0209 .0211  
.690 -.0284 -.0492  
.831 .1824 .1535



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TABULATED SOURCE DATA - 1A80

PAGE 4

ARC11-0231A80 OTS(SRB=N++ ORB=N )

OR3 FUSE

(RE4002)

ALPHA ( 2 ) = -.455 BETA ( 3 ) = 4.003 MACH = .90060 RN/L = 4.2176 PO = 2105.2 P = 1244.5

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7717	-.6325
.407	-.0051	-.0513
.548	-.0228	-.0642
.690	-.0390	-.1847
.831	-.0005	.2753

ALPHA ( 3 ) = 3.977 BETA ( 1 ) = -.009 MACH = .89810 RN/L = 4.2116 PO = 2105.5 P = 1247.5

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.8331	-.7645
.407	-.0217	-.0237
.548	-.0285	-.0301
.690	-.1232	-.1657
.831	.1260	.1197

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TABULATED SOURCE DATA - 1A80

PAGE 5

ARC11-0231A80 OTS(SRB=N++ ORB=N )

(RB FUSE

(RE4C03) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-IB = .000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.920 BETA ( 1 ) = -.003 MACH = 1.0986 RN/L = 4.3008 PO = 2109.8 P = 989.84

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/L0  
.260 -.5043 -.4452  
.407 -.1764 -.1734  
.548 -.0022 .0154  
.690 .2081 .1956  
.831 .2574 .2559

ALPHA ( 2 ) = -.621 BETA ( 1 ) = -4.006 MACH = 1.1024 RN/L = 4.3086 PO = 2109.6 P = 985.11

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/L0  
.260 -.4063 -.5606  
.407 -.1847 -.2091  
.548 .0622 .1252  
.690 -.0390 .1609  
.831 .4244 .0971

ALPHA ( 2 ) = -.641 BETA ( 2 ) = .000 MACH = 1.1024 RN/L = 4.3086 PO = 2109.6 P = 985.11

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/L0  
.260 -.5090 -.4531  
.407 -.1823 -.1780  
.548 .0584 .0878  
.690 .1625 .1172  
.831 .4400 .4180

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N++ ORB=N )

CRB FUSE

(RE4C03)

ALPHA ( 2 ) = -1.492 BETA ( 3 ) = 4.009 MACH = 1.1024 RN/L = 4.3086 PC = 2109.6 P = 985.11

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO LO

.260	-.6043	-.3591
.407	-.1995	-.1741
.549	.1046	.0675
.690	.1520	-.0744
.831	.1025	.4129

ALPHA ( 3 ) = 3.944 BETA ( 1 ) = -1.003 MACH = 1.1088 RN/L = 4.3102 PC = 2108.4 P = 975.70

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO LO

.260	-.5106	-.4743
.407	-.2102	-.2135
.549	.1481	.1512
.690	.0556	.0399
.831	.2953	.2597

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

PAGE 7

ARC11-0231A80 OTS(SRB=N++ ORB=N )

ORB FUSE

(RE400+) 13 JAN 75

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -4.155 BETA ( 1 ) = .000 MACH = 1.2595 RN/L = 4.4972 PO = 2140.2 P = 815.93

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3287 -.2800  
.407 -.1612 -.1762  
.548 -.0734 -.0673  
.690 .0140 .0131  
.831 .1951 .1823

ALPHA ( 2 ) = -4.495 BETA ( 1 ) = -4.006 MACH = 1.2534 RN/L = 4.4312 PO = 2113.5 P = 812.32

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.2640 -.3964  
.407 -.1722 -.3021  
.548 -.0897 -.0653  
.690 -.0976 .0043  
.831 .3137 .0287

ALPHA ( 2 ) = -4.528 BETA ( 2 ) = .000 MACH = 1.2534 RN/L = 4.4312 PO = 2113.5 P = 812.32

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3474 -.3028  
.407 -.1671 -.1838  
.548 -.0750 -.0695  
.690 .0172 .0284  
.831 .3253 .2552

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N++ ORB=N )

CRB FUSE

(RENC041

ALPHA ( 2 ) = - .555 BETA ( 3 ) = 4.006 MACH = 1.2534 RN/L = 4.4312 PO = 2113.5 P = 812.32

SECTION ( 1 ) CRB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.00002+0.0000

XO/LO

.250	-.4272	-.2149
.407	-.2749	-.1779
.548	-.0608	-.0855
.690	-.0015	-.0933
.831	.0326	.2749

ALPHA ( 3 ) = 3.881 BETA ( 1 ) = .006 MACH = 1.2464 RN/L = 4.4257 PO = 2113.3 P = 819.83

SECTION ( 1 ) CRB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.00002+0.0000

XO/LO

.250	-.3504	-.3377
.407	-.1872	-.1991
.548	-.1015	-.1093
.690	-.0166	-.0173
.831	.2193	.1786

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB+N++ ORB=N ) ORB FUSE

(REWC05) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-09 = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.950 BETA ( 1 ) = -.003 MACH = 1.4026 RN/L = 4.3103 PO = 2124.6 P = 665.23

SECTION ( 110RB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO LO  
.260 -.2199 -.1755  
.407 -.1840 -.1980  
.548 -.0574 -.0555  
.690 .0102 .0150  
.831 .1932 .1622

ALPHA ( 2 ) = -.436 BETA ( 1 ) = -4.009 MACH = 1.4051 RN/L = 4.3040 PO = 2123.0 P = 662.39

SECTION ( 110RB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO LO  
.260 -.1486 -.2808  
.407 -.1964 -.2964  
.549 -.0599 -.0916  
.690 -.0637 -.0142  
.831 .2653 .0385

ALPHA ( 2 ) = -.492 BETA ( 2 ) = -.003 MACH = 1.4051 RN/L = 4.3040 PO = 2123.0 P = 662.39

SECTION ( 110RB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO LO  
.260 -.2428 -.2001  
.407 -.2126 -.2317  
.548 -.0627 -.0613  
.690 -.0018 -.0022  
.831 .2396 .2077

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TABULATED SOURCE DATA - 1A80

PAGE 10

ARC11-0231A80 OTS(SRB=N++ ORB=N ) ORB FUSE (RE4C05)

ALPHA ( 2 ) = -.505 BETA ( 3 ) = 4.009 MACH = 1.4051 RN/L = 4.3040 PO = 2123.0 P = 662.38

SECTION ( 110RB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/L0

.260	-.3079	-.1139
.407	-.2989	-.1941
.548	-.0872	-.0539
.690	-.0236	-.0611
.931	.0619	.2582

ALPHA ( 3 ) = 3.981 BETA ( 1 ) = -.006 MACH = 1.4020 RN/L = 4.3020 PO = 2122.5 P = 665.10

SECTION ( 110RB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/L0

.260	-.2568	-.2134
.407	-.2694	-.2852
.548	-.0847	-.0894
.690	-.0331	-.0351
.931	.2262	.1989

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N+ ORB=N ) ORB FUSE

(RE4005) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.848 BETA ( 1 ) = -.019 MACH = .59810 RN/L = 3.3852 PO = 2109.1 P = 1650.0

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3353 -.3724  
.407 -.0575 -.0576  
.548 -.0216 -.0172  
.690 -.0269 -.0299  
.831 .0372 .0276

ALPHA ( 2 ) = -.350 BETA ( 1 ) = -4.038 MACH = .59800 RN/L = 3.3843 PO = 2108.4 P = 1655.5

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3151 -.4537  
.407 -.0947 -.1057  
.548 -.0996 -.0709  
.690 -.1075 -.0965  
.831 .2647 -.2355

ALPHA ( 2 ) = -.314 BETA ( 2 ) = -.022 MACH = .59800 RN/L = 3.3843 PO = 2108.4 P = 1655.5

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3589 -.3973  
.407 -.0663 -.0717  
.548 -.0399 -.0396  
.690 -.0497 -.0589  
.831 .0279 .0224



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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N+ ORB=N )

ORB FUSE

(RE4C06)

ALPHA ( 2 ) = -.396 BETA ( 3 ) = 3.997 MACH = .59800 RN/L = 3.3843 PO = 2108.4 P = 1655.5

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO		
.260	-.4250	-.3580
.407	-.1219	-.1051
.548	-.0813	-.1021
.690	-.0962	-.1162
.831	-.2274	.2763

ALPHA ( 3 ) = 3.970 BETA ( 1 ) = -.022 MACH = .59820 RN/L = 3.3879 PO = 2107.7 P = 1654.7

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO		
.260	-.3890	-.4310
.407	-.1101	-.1139
.548	-.0925	-.1008
.690	-.1052	-.1090
.831	.0155	.0447

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ARC11-0231A80 OTS(SRB=N+ ORB=N )

ORB FUSE

(RE4C07) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.930 BETA ( 1 ) = -.009 MACH = .89930 RN/L = 4.2036 PO = 2101.3 P = 1243.3

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8238 -.7639  
.407 .0107 .0113  
.548 .0348 .0381  
.690 .0155 .0026  
.831 .1024 .0813

ALPHA ( 2 ) = -.376 BETA ( 1 ) = -4.028 MACH = .90183 RN/L = 4.2093 PO = 2101.3 P = 1239.9

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7034 -.8878  
.407 -.0413 .0103  
.548 -.0605 -.0123  
.690 -.1527 -.0482  
.831 .2613 -.0341

ALPHA ( 2 ) = -.330 BETA ( 2 ) = -.012 MACH = .90183 RN/L = 4.2093 PO = 2101.3 P = 1239.9

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8107 -.7361  
.407 .0223 .0221  
.548 .0108 .0106  
.690 -.0418 -.0623  
.831 .1719 .1624

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ARC11-0231A80 OTS(SRB=N+ ORB=N ) ORB FUSE

(RE4C07)

ALPHA ( 2 ) = -.330 BETA ( 3 ) = 4.003 MACH = .90183 RN/L = 4.2093 PO = 2101.3 P = 1239.9

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7679	-.6235
.407	-.0025	-.0477
.548	-.0206	-.0610
.690	-.0368	-.1881
.831	.0043	.2759

ALPHA ( 3 ) = 3.927 BETA ( 1 ) = -.016 MACH = .90100 RN/L = 4.2086 PO = 2101.3 P = 1241.0

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.8269	-.7579
.407	-.0178	-.0202
.548	-.0281	-.0287
.690	-.1281	-.1781
.831	.1307	.1167

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ARC11-0231A80 OTS(SRB=N+ ORB=N )

ORB FUSE

(RE4C08) ( 13 JAN 75 )

REFERENCE DATA

REF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
REF = 1290.3000 IN. YMRP = .0000 IN.  
REF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.907 BETA ( 1 ) = .000 MACH = 1.0989 RN/L = 4.3130 PO = 2107.0 P = 988.16

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.5041 -.4441  
.407 -.1761 -.1739  
.548 -.0078 .0170  
.690 .2102 .1975  
.831 .2530 .2527

ALPHA ( 2 ) = -.515 BETA ( 1 ) = -4.003 MACH = 1.1012 RN/L = 4.3135 PO = 2106.7 P = 985.16

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.4069 -.5593  
.407 -.1794 -.1923  
.548 .0714 .1268  
.690 -.0412 .1611  
.831 .4220 .0936

ALPHA ( 2 ) = -.525 BETA ( 2 ) = .003 MACH = 1.1012 RN/L = 4.3135 PO = 2106.7 P = 985.16

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.5101 -.4529  
.407 -.1923 -.1789  
.548 .0800 .0913  
.690 .1503 .1183  
.831 .4394 .4168

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ARC11-0231A80 OTS(SRB=N+ ORB=N ) ORB FUSE (RENC08)

ALPHA ( 2 ) = -.426 BETA ( 3 ) = 4.012 MACH = 1.1012 RN/L = 4.3135 PO = 2106.7 P = 985.16

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.6060	-.3593
.407	-.1908	-.1744
.548	.1099	.0693
.690	.1525	-.0776
.831	.1020	.4085

ALPHA ( 3 ) = 3.881 BETA ( 1 ) = .006 MACH = 1.1017 RN/L = 4.3151 PO = 2105.5 P = 984.01

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5249	-.4752
.407	-.1856	-.1851
.548	.1721	.1688
.690	.0523	.0266
.831	.2767	.2581

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ARC11-0231A80 OTS(SRB=N+ ORB=N ) ORB FUSE

(RE4C09) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.897 BETA ( 1 ) = .006 MACH = 1.2489 RN/L = 4.4001 PO = 2111.9 P = 816.48

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3358 -.2868  
.407 -.1803 -.1708  
.548 -.0628 -.0569  
.690 .0243 .0197  
.831 .1933 .1804

ALPHA ( 2 ) = -.482 BETA ( 1 ) = -4.006 MACH = 1.2477 RN/L = 4.3993 FO = 2111.9 P = 817.80

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2659 -.3985  
.407 -.1730 -.3084  
.548 -.0923 -.0653  
.690 -.0903 .0006  
.831 .3077 .0272

ALPHA ( 2 ) = -.519 BETA ( 2 ) = .003 MACH = 1.2477 RN/L = 4.3993 PO = 2111.9 P = 817.80

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3510 -.3068  
.407 -.1700 -.1828  
.548 -.0760 -.0710  
.690 .0147 .0040  
.831 .3333 .2510

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TABULATED SOURCE DATA - 1480

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ARC11-0231A80 OTS(SRB=N+ ORB=N ) ORB FUSE

(RE4C09)

ALPHA ( 2 ) = -.462 BETA ( 3 ) = 4.009 MACH = 1.2477 RN/L = 4.3993 PO = 2111.9 P = 817.80

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4406	-.2269
.407	-.2782	-.1815
.548	-.0694	-.0937
.690	-.0056	-.0906
.831	.0275	.2558

ALPHA ( 3 ) = 3.854 BETA ( 1 ) = .006 MACH = 1.2493 RN/L = 4.3962 PO = 2111.9 P = 810.04

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3808	-.3344
.407	-.1907	-.1995
.548	-.1019	-.1105
.690	-.0171	-.0173
.831	.2217	.1833

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ARC11-0231A80 OTS(SRB=N+ ORB=N ) ORB FUSE

(RE4C10) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.904 BETA ( 1 ) = -.006 MACH = 1.4001 RN/L = 4.2924 PO = 2119.7 P = 665.99

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2322 -.1791  
.407 -.1873 -.2035  
.548 -.0620 -.0600  
.690 .0087 .0129  
.831 .1879 .1634

ALPHA ( 2 ) = -.406 BETA ( 1 ) = -4.009 MACH = 1.4020 RN/L = 4.2945 PO = 2120.9 P = 664.59

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.1514 -.2834  
.407 -.1992 -.2981  
.548 -.0614 -.0922  
.690 -.0668 -.0146  
.831 .2483 .0395

ALPHA ( 2 ) = -.370 BETA ( 2 ) = .000 MACH = 1.4020 RN/L = 4.2945 PO = 2120.9 P = 664.59

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2455 -.2041  
.407 -.2137 -.2339  
.548 -.0631 -.0636  
.690 -.0318 -.0326  
.831 .2410 .2021



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ARC11-0231A80 OTS(SRB=N+ ORB=N ) ORB FUSE

(RE4C10)

ALPHA ( 2 ) = -.453 BETA ( 3 ) = 4.012 MACH = 1.4020 RN/L = 4.2945 PO = 2120.9 P = 664.59

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3106	-.1158
.407	-.3041	-.1994
.548	-.0867	-.0580
.690	-.0218	-.0641
.831	.0613	.2534

ALPHA ( 3 ) = 3.944 BETA ( 1 ) = -.006 MACH = 1.3972 RN/L = 4.2925 PO = 2121.1 P = 669.17

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.2636	-.2218
.407	-.2769	-.2915
.548	-.0893	-.0913
.690	-.0392	-.0396
.831	.2162	.1944

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 QTS(SRB=N ORB=N+) ORB FUSE

(RE4C11) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = .000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.957 BETA ( 1 ) = -.016 MACH = .59560 RN/L = 3.3845 PO = 2105.5 P = 1656.4

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3364 -.3738  
.407 -.0540 -.0551  
.548 -.0209 -.0157  
.690 -.0297 -.0377  
.831 .0332 .0152

ALPHA ( 2 ) = -.337 BETA ( 1 ) = -4.041 MACH = .59810 RN/L = 3.3979 PO = 2105.7 P = 1653.4

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3134 -.4569  
.407 -.0939 -.1050  
.548 -.0994 -.0705  
.690 -.1027 -.0961  
.831 .2658 -.2369

ALPHA ( 2 ) = -.383 BETA ( 2 ) = -.022 MACH = .59810 RN/L = 3.3979 PO = 2105.7 P = 1653.4

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3516 -.3954  
.407 -.0654 -.0634  
.548 -.0421 -.0380  
.690 -.0558 -.0558  
.831 .0248 .0275

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ARC11-0231A80 OTS(SRB=N) ORB=N) CRB FUSE

(RE4C11)

ALPHA ( 2 ) = -.400 BETA ( 3 ) = 3.997 MACH = .59810 RN/L = 3.3979 PO = 2105.7 P = 1653.4

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4072	-.3423
.407	-.0987	-.0905
.548	-.0695	-.0919
.690	-.0649	-.0938
.831	-.2067	.2696

ALPHA ( 3 ) = 4.125 BETA ( 1 ) = -.025 MACH = .59930 RN/L = 3.4056 PO = 2106.2 P = 1652.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3843	-.4222
.407	-.1052	-.1079
.548	-.0941	-.0931
.690	-.1025	-.1101
.831	.0310	.0410

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ARC11-0231A80 OTS(SRB=N ORB=N\*) ORB FUSE

(REWC12) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -4.062 BETA ( 1 ) = -.012 MACH = .89970 RN/L = 4.2040 PO = 2099.9 P = 1242.0

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8253 -.7637  
.407 .0093 .0099  
.548 .0319 .0342  
.690 .0143 .0036  
.831 .1054 .0857

ALPHA ( 2 ) = -.383 BETA ( 1 ) = -4.028 MACH = .90127 RN/L = 4.2082 PO = 2100.1 P = 1240.0

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7144 -.8942  
.407 -.0537 -.0002  
.548 -.0692 -.0249  
.690 -.1679 -.0588  
.831 .2594 -.0347

ALPHA ( 2 ) = -.383 BETA ( 2 ) = -.016 MACH = .90127 RN/L = 4.2082 PO = 2100.1 P = 1240.0

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8053 -.7332  
.407 .0232 .0228  
.548 .0202 .0196  
.690 -.0299 -.0500  
.831 .1871 .1614

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ARC11-0231A80 OTS(SRB=N ORB=N+ )

ORB FUSE

(RE4C12)

ALPHA ( 2 ) = -.453 BETA ( 3 ) = 4.000 MACH = .90127 RN/L = 4.2082 PO = 2100.1 P = 1240.0

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7689	-.6278
.407	-.0049	-.0458
.548	-.0179	-.0571
.690	-.0366	-.1867
.831	.0053	.2699

ALPHA ( 3 ) = 3.947 BETA ( 1 ) = -.012 MACH = .90020 RN/L = 4.1982 PO = 2099.2 P = 1240.9

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.8293	-.7575
.407	-.0187	-.0215
.548	-.0308	-.0316
.690	-.1348	-.1820
.831	.1252	.1187

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ARC11-0231A80 OTS(SRB=N ORB=N+ )

ORB FUSE

(RE4C13) ( 13 JAN 75 )

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.950 BETA ( 1 ) = .006 MACH = 1.0974 RN/L = 4.3157 PO = 2105.5 P = 989.31

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5064 -.4465  
.407 -.1768 -.1733  
.548 .0140 .0306  
.690 .2083 .1950  
.831 .2483 .2522

ALPHA ( 2 ) = -.509 BETA ( 1 ) = -4.066 MACH = 1.1004 RN/L = 4.3182 PO = 2105.5 P = 985.62

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4066 -.5602  
.407 -.1739 -.1919  
.548 .0695 .1248  
.690 -.0408 .1604  
.831 .4123 .0843

ALPHA ( 2 ) = -.552 BETA ( 2 ) = -.056 MACH = 1.1004 RN/L = 4.3182 PO = 2105.5 P = 985.62

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5095 -.4548  
.407 -.1832 -.1769  
.548 .0899 .1010  
.690 .1629 .1180  
.831 .4402 .4244

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ARC11-0231A80 OTS:SRB=N ORB=N+ ) ORB FUSE (RE4C13)

ALPHA ( 2 ) = -.486 BETA ( 3 ) = 3.950 MACH = 1.1004 RN/L = 4.3182 PO = 2105.5 P = 985.62

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

X0/L0

.260	-.6072	-.3613
.407	-.1883	-.1746
.548	.1058	.0719
.690	.1525	-.0806
.831	.1016	.4051

ALPHA ( 3 ) = 4.029 BETA ( 1 ) = -.069 MACH = 1.1030 RN/L = 4.3205 PO = 2104.8 P = 982.12

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

X0/L0

.260	-.5240	-.4754
.407	-.1636	-.1673
.548	.1706	.1709
.690	.0528	.0262
.831	.2782	.2605

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TABULATED SOURCE DATA - IAB0

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ARC11-023IAB0 OTS(SRB=N ORB=N+ ) ORB FUSE

(RE4C14) ( 13 JAN 75 )

# REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

# PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.963 BETA ( 1 ) = .006 MACH = 1.2512 RN/L = 4.3841 PO = 2109.1 P = 812.89

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

## XO/LO

.260 -.3325 -.2852  
.407 -.1557 -.1710  
.548 -.0568 -.0528  
.690 .0245 .0191  
.831 .1932 .1811

ALPHA ( 2 ) = -.492 BETA ( 1 ) = -4.006 MACH = 1.2479 RN/L = 4.3874 PO = 2110.0 P = 815.96

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

## XO/LO

.260 -.2648 -.3985  
.407 -.1746 -.3108  
.548 -.0934 -.0635  
.690 -.0872 .0023  
.831 .2991 .0288

ALPHA ( 2 ) = -.466 BETA ( 2 ) = .003 MACH = 1.2479 RN/L = 4.3874 PO = 2110.0 P = 815.96

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

## XO/LO

.260 -.3487 -.3069  
.407 -.1701 -.1807  
.548 -.0693 -.0696  
.690 .0154 .0071  
.831 .3305 .2549



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ARC11-0231A80 OTS(SRB=N ORB=N+ ) ORB FUSE

(RE4C14)

ALPHA ( 2 ) = -.522 BETA ( 3 ) = 4.009 MACH = 1.2479 RN/L = 4.3874 PO = 2110.0 P = 816.96

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4394	-.2254
.407	-.2812	-.1892
.548	-.0692	-.0928
.690	-.0074	-.0924
.831	.0291	.2581

ALPHA ( 3 ) = 3.996 BETA ( 1 ) = .000 MACH = 1.2453 RN/L = 4.3815 PO = 2109.8 P = 819.58

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3969	-.3409
.407	-.1910	-.2027
.548	-.1039	-.1123
.690	-.0202	-.0197
.831	.2095	.1685

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N+ )

ORB FUSE

(RE4C15) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.910 BETA ( 1 ) = -.006 MACH = 1.4040 RN/L = 4.2694 PO = 2117.6 P = 661.67

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2193 -.1766  
.407 -.1876 -.2005  
.548 -.0606 -.0572  
.690 .0123 .0177  
.831 .1849 .1700

ALPHA ( 2 ) = -.409 BETA ( 1 ) = -.409 MACH = 1.4005 RN/L = 4.2782 PO = 2119.0 P = 665.37

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.1522 -.2839  
.407 -.1979 -.2997  
.548 -.0603 -.0892  
.690 -.0604 -.0113  
.831 .2533 .0392

ALPHA ( 2 ) = -.446 BETA ( 2 ) = .000 MACH = 1.4005 RN/L = 4.2782 PO = 2119.0 P = 665.37

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2471 -.2048  
.407 -.2164 -.2343  
.548 -.0626 -.0617  
.690 -.0126 -.0122  
.831 .2414 .2062

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ARC11-0231A80 OTS(SRB=N ORB=N+ ) ORB FUSE

(RE4C15)

ALPHA ( 2 ) = -.509 BETA ( 3 ) = 4.009 MACH = 1.4005 RN/L = 4.2782 PO = 2119.0 P = 665.37

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3143	-.1189
.407	-.3079	-.1994
.548	-.0848	-.0567
.690	-.0202	-.0638
.831	.0558	.2558

ALPHA ( 3 ) = 3.848 BETA ( 1 ) = -.006 MACH = 1.4000 RN/L = 4.2776 PO = 2121.1 P = 666.55

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.2608	-.2185
.407	-.2742	-.2888
.548	-.0828	-.0903
.690	-.0395	-.0354
.831	.2235	.1386

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ARC11-0231A80 OTS(SRB=N ORB=N- ) ORB FUSE

(RE4C16) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.986 BETA ( 1 ) = -.012 MACH = .90160 RN/L = 4.2050 PO = 2099.2 P = 1239.1

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.8427 -.7617  
.407 .0126 .0137  
.548 .0329 .0369  
.690 .0157 .0022  
.831 .1031 .0802

ALPHA ( 2 ) = -.350 BETA ( 1 ) = -.4031 MACH = .90357 RN/L = 4.2104 PO = 2098.7 P = 1235.1

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.7081 -.8882  
.407 -.0502 .0012  
.548 -.0637 -.0220  
.690 -.1622 -.0496  
.831 .2635 -.0399

ALPHA ( 2 ) = -.301 BETA ( 2 ) = -.016 MACH = .90357 RN/L = 4.2104 PO = 2098.7 P = 1236.1

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.7956 -.7189  
.407 .0322 .0330  
.548 .0251 .0239  
.690 -.0255 -.0469  
.831 .1085 .1642

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ARC11-0231A80 OTS(SRB=N ORB=N- )

ORB FUSE

(RE40'S)

ALPHA ( 2 ) = -.317 BETA ( 3 ) = 4.000 MACH = .90357 RN/L = 4.2104 PO = 2098.7 P = 1236.1

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7823	-.6227
.407	-.0010	-.0442
.548	-.0193	-.0575
.690	-.0325	-.1861
.831	.0061	.2760

ALPHA ( 3 ) = 3.947 BETA ( 1 ) = -.019 MACH = .90070 RN/L = 4.2030 PO = 2093.5 P = 1239.6

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.8263	-.7590
.407	-.0199	-.0209
.548	-.0285	-.0285
.690	-.1331	-.1810
.831	.1244	.1161

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ARC11-0231A80 OTS(SRB=N ORB=N- ) ORB FUSE

(REWC17) 13 JAN 75

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -4.020 BETA ( 1 ) = -.054 MACH = 1.0966 RN/L = 4.3161 PO = 2104.8 P = 990.02

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.5078 -.4484  
.407 -.1774 -.1749  
.548 .0202 .0297  
.690 .2080 .1947  
.831 .2578 .2543

ALPHA ( 2 ) = -.479 BETA ( 1 ) = -4.069 MACH = 1.1010 RN/L = 4.3147 PO = 2104.3 P = 984.44

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.4083 -.5608  
.407 -.1809 -.1919  
.548 .0685 .1234  
.690 -.0464 .1575  
.831 .4191 .0802

ALPHA ( 2 ) = -.489 BETA ( 2 ) = -.056 MACH = 1.1010 RN/L = 4.3147 PO = 2104.3 P = 984.44

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.5109 -.4547  
.407 -.1835 -.1782  
.548 .0995 .1046  
.690 .1525 .1184  
.831 .4381 .4184

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ARC11-0231A80 OTS(SRB=N ORB=N- ) ORB FUSE

(RE4C17)

ALPHA ( 2 ) = -.496 BETA ( 3 ) = 3.947 MACH = 1.1010 RN/L = 4.3147 PO = 2104.3 P = 984.44

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.6062	-.3603
.407	-.1892	-.1776
.548	.1052	.0672
.690	.1520	-.0779
.831	.1024	.3997

ALPHA ( 3 ) = 3.983 BETA ( 1 ) = -.063 MACH = 1.1056 RN/L = 4.3164 PO = 2104.1 P = 978.63

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5203	-.4709
.407	-.1890	-.1873
.548	.1663	.1648
.690	.0578	.0324
.831	.2875	.2645

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ARC11-0231A80 OTS(SRB=N ORB=N- ) ORB FUSE

(RE4C18) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LPEF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.953 BETA ( 1 ) = .000 MACH = 1.2490 RN/L = 4.3771 PO = 2108.4 P = 815.07

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3346 -.2874  
.407 -.1569 -.1702  
.548 -.0629 -.0578  
.690 .0219 .0208  
.831 .1962 .1848

ALPHA ( 2 ) = -.429 BETA ( 1 ) = -4.006 MACH = 1.2479 RN/L = 4.3753 PO = 2108.4 P = 816.19

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.2650 -.3993  
.407 -.1728 -.3029  
.548 -.0937 -.0646  
.690 -.0856 .0035  
.831 .3144 .0269

ALPHA ( 2 ) = -.423 BETA ( 2 ) = .003 MACH = 1.2479 RN/L = 4.3753 PO = 2108.4 P = 816.19

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3509 -.3077  
.407 -.1713 -.1770  
.548 -.0771 -.0733  
.690 .0143 .0097  
.831 .3438 .2678



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ARC11-0231A80 CTS(SRB=N ORB=N- ) ORB FUSE

(RE4C18)

ALPHA ( 2 ) = -.416 BETA ( 3 ) = 4.009 MACH = 1.2479 RN/L = 4.3753 PO = 2108.4 P = 816.19

SECTION ( 11)ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CF

PHI 120.0000240.0000

XO/LO

.260	-.4423	-.2273
.407	-.2771	-.1862
.548	-.0677	-.0919
.690	-.0052	-.0934
.831	.0287	.2572

ALPHA ( 3 ) = 3.993 BETA ( 1 ) = .003 MACH = 1.2456 RN/L = 4.3674 PO = 2108.4 P = 818.72

SECTION ( 11)ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3853	-.3399
.407	-.1905	-.2047
.548	-.1073	-.1158
.690	-.0196	-.0200
.831	.2208	.1756

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ARC11-0231A80 OTS(SR3=N ORB=N- ) ORB FUSE

(RE4C19) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-19 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.848 BETA ( 1 ) = -.006 MACH = 1.4069 RN/L = 4.2698 PO = 2120.4 P = 659.90

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.2169 -.1775  
.407 -.1851 -.2003  
.548 -.0630 -.0610  
.690 .0103 .0147  
.831 .1905 .1623

ALPHA ( 2 ) = -.357 BETA ( 1 ) = -4.009 MACH = 1.4043 RN/L = 4.2657 PO = 2120.4 P = 662.32

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.1506 -.2832  
.407 -.1995 -.2989  
.548 -.0623 -.0919  
.690 -.0672 -.0135  
.831 .2497 .0423

ALPHA ( 2 ) = -.363 BETA ( 2 ) = .000 MACH = 1.4043 RN/L = 4.2657 PO = 2120.4 P = 662.32

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.2441 -.2049  
.407 -.2146 -.2330  
.548 -.0631 -.0637  
.690 .0001 -.0024  
.831 .2413 .1998

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ARC11-0231A80 OTS(SRB=N ORB=N- ) ORB FUSE (RE4C19)

ALPHA ( 2 ) = -.462 BETA ( 3 ) = 4.012 MACH = 1.4013 RN/L = 4.2657 PO = 2120.4 P = 662.32

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3095	-.1158
.407	-.3035	-.1980
.548	-.0979	-.0580
.690	-.0325	-.0647
.831	.0622	.2578

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = -.003 MACH = 1.4018 RN/L = 4.2745 PO = 2122.5 P = 665.25

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.2591	-.2177
.407	-.2744	-.2878
.548	-.0872	-.0939
.690	-.0334	-.0348
.831	.2231	.1991

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C20) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.868 BETA ( 1 ) = -.016 MACH = .59200 RN/L = 3.3619 PO = 2105.5 P = 1661.0

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3396 -.3830  
.407 -.0629 -.0569  
.548 -.0249 -.0263  
.690 -.0407 -.0417  
.831 .0367 .0206

ALPHA ( 2 ) = -.327 BETA ( 1 ) = -4.039 MACH = .59820 RN/L = 3.3862 PO = 2105.3 P = 1652.9

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3122 -.4569  
.407 -.0844 -.0954  
.548 -.0854 -.0530  
.690 -.0838 -.0834  
.831 .2648 -.2305

ALPHA ( 2 ) = -.231 BETA ( 2 ) = -.022 MACH = .59820 RN/L = 3.3862 PO = 2105.3 P = 1652.9

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3582 -.3994  
.407 -.0804 -.0773  
.548 -.0506 -.0534  
.690 -.0677 -.0753  
.831 .0259 .0231

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C20)

ALPHA ( 2 ) = -.386 BETA ( 3 ) = 3.994 MACH = .59820 RN/L = 3.3862 PO = 2105.3 P = 1652.9

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4058	-.3439
.407	-.0930	-.0872
.548	-.0551	-.0851
.690	-.0751	-.0820
.831	-.2100	.2813

ALPHA ( 3 ) = 4.016 BETA ( 1 ) = -.022 MACH = .60330 RN/L = 3.4092 PO = 2105.5 P = 1646.4

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3801	-.4181
.407	-.1011	-.1038
.548	-.0890	-.0944
.690	-.0958	-.1029
.831	.0356	.0423

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C21) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.977 BETA ( 1 ) = -.016 MACH = .90170 RN/L = 4.2042 PO = 2099.2 P = 1238.9

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.8430 -.7610  
.407 .0141 .0143  
.548 .0337 .0386  
.690 .0173 .0039  
.831 .1036 .0783

ALPHA ( 2 ) = -.327 BETA ( 1 ) = -4.028 MACH = .90323 RN/L = 4.2094 PO = 2099.4 P = 1237.0

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.7089 -.8902  
.407 -.0470 .0024  
.548 -.0590 -.0144  
.690 -.1525 -.0491  
.831 .2618 -.0341

ALPHA ( 2 ) = -.317 BETA ( 2 ) = -.012 MACH = .90323 RN/L = 4.2094 PO = 2099.4 P = 1237.0

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.7936 -.7171  
.407 .0392 .0364  
.548 .0230 .0236  
.690 -.0270 -.0465  
.831 .1859 .1700

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C21)

ALPHA ( 2 ) = -.350 BETA ( 3 ) = 4.000 MACH = .90323 RN/L = 4.2094 PO = 2099.4 P = 1237.0

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7918	-.6283
.407	.0004	-.0455
.548	-.0187	-.0580
.690	-.0339	-.1861
.831	.0009	.2737

ALPHA ( 3 ) = 3.977 BETA ( 1 ) = -.012 MACH = .90240 RN/L = 4.2041 PO = 2098.5 P = 1237.5

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.8231	-.7547
.407	-.0152	-.0172
.548	-.0244	-.0271
.690	-.1270	-.1761
.831	.1313	.1143

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ARC11-0231A80 OTS(SRB=N ORB=N ) GRS FUSE

(RE4C22) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0900 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.937 BETA ( 1 ) = -.063 MACH = 1.0978 RN/L = 4.3175 PO = 2104.8 P = 988.46

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5054 -.4458  
.407 -.1765 -.1726  
.548 .0206 .0353  
.690 .2093 .1973  
.831 .2540 .2497

ALPHA ( 2 ) = -.525 BETA ( 1 ) = -4.059 MACH = 1.1008 RN/L = 4.3153 PO = 2104.6 P = 984.73

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4066 -.5597  
.407 -.1789 -.1869  
.548 .0732 .1266  
.690 -.0441 .1605  
.831 .4187 .0823

ALPHA ( 2 ) = -.439 BETA ( 2 ) = -.056 MACH = 1.1098 RN/L = 4.3153 PO = 2104.6 P = 984.73

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5110 -.4553  
.407 -.1835 -.1780  
.548 .0221 .0363  
.690 .1622 .1173  
.831 .4320 .4224



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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C22)

ALPHA ( 2 ) = - .482 BETA ( 3 ) = 3.950 MACH = 1.1008 RN/L = 4.3153 PO = 2104.6 P = 984.73

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.6262	-.3599
.407	-.1911	-.1742
.548	.1039	.0716
.690	.1517	-.0780
.831	.1003	.4086

ALPHA ( 3 ) = 3.963 BETA ( 1 ) = -.063 MACH = 1.1046 RN/L = 4.3189 PO = 2104.1 P = 979.83

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5218	-.4735
.407	-.1923	-.1803
.548	.1692	.1668
.690	.0538	.0296
.831	.2815	.2610

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C23) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.917 BETA ( 1 ) = .003 MACH = 1.2460 RN/L = 4.3726 PO = 2108.4 P = 818.30

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3381 -.2914  
.407 -.1599 -.1734  
.548 -.0648 -.0589  
.690 .0223 .0196  
.831 .1903 .1814

ALPHA ( 2 ) = -.446 BETA ( 1 ) = -4.006 MACH = 1.2483 RN/L = 4.3668 PO = 2108.9 P = 816.03

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2666 -.3999  
.407 -.1750 -.3106  
.548 -.0923 -.0662  
.690 -.0876 .0022  
.831 .3042 .0258

ALPHA ( 2 ) = -.456 BETA ( 2 ) = .003 MACH = 1.2483 RN/L = 4.3668 PO = 2108.9 P = 816.03

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3487 -.3057  
.407 -.1697 -.1818  
.548 -.0741 -.0721  
.690 .0166 .0077  
.831 .3370 .2679

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ARC11-0231A80 OTS1SR8=N ORB=N ) ORB FUSE (RE4C23)

ALPHA ( 2 ) = -.439 BETA ( 3 ) = 4.012 MACH = 1.2483 RN/L = 4.3668 PO = 2108.9 P = 816.03

SECTION ( 110RB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4416	-.2261
.407	-.2796	-.1886
.548	-.0692	-.0933
.690	-.0063	-.0952
.831	.0273	.2627

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = .000 MACH = 1.2455 RN/L = 4.3668 PO = 2109.1 P = 819.16

SECTION ( 110RB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3847	-.3395
.407	-.1883	-.2037
.548	-.1053	-.1116
.690	-.0195	-.0195
.831	.2114	.1690

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C24) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.884 BETA ( 1 ) = -.003 MACH = 1.4001 RN/L = 4.2484 PO = 2114.0 P = 664.19

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2222 -.1798  
.407 -.1914 -.2031  
.548 -.0556 -.0599  
.690 .0088 .0141  
.831 .1877 .1663

ALPHA ( 2 ) = -.370 BETA ( 1 ) = -.4009 MACH = 1.3999 RN/L = 4.2511 PO = 2113.8 P = 664.35

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.1512 -.2835  
.407 -.1986 -.2986  
.548 -.0639 -.0872  
.690 -.0638 -.0119  
.831 .2498 .0399

ALPHA ( 2 ) = -.370 BETA ( 2 ) = .000 MACH = 1.3999 RN/L = 4.2511 PO = 2113.8 P = 664.35

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2491 -.2053  
.407 -.2183 -.2365  
.548 -.0616 -.0647  
.690 -.0023 -.0034  
.831 .2358 .2000

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4024)

ALPHA ( 2 ) = -.429 BETA ( 3 ) = 4.012 MACH = 1.3999

RN/L = 4.2511

PO

= 2113.8 P = 664.35

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO		
.260	- .3132	-.1176
.407	-.3071	-.1990
.548	-.0854	-.0571
.690	-.0210	-.0637
.831	.0611	.2571

ALPHA ( 3 ) = 3.894 BETA ( 1 ) =

.000 MACH = 1.3947

RN/L = 4.2558

PO

= 2114.0

P

= 669.27

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO		
.260	-.2647	-.2220
.407	-.2783	-.2916
.548	-.0903	-.0923
.690	-.0412	-.0397
.831	.2214	.1959

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N- ORB=N )

ORB FUSE

(RE4C25) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1E = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -4.020 BETA ( 1 ) = -.063 MACH = 1.0964 RN/L = 4.3166 PO = 2104.1 P = 989.89

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5092 -.4480  
.407 -.1772 -.1733  
.548 .0554 .0718  
.690 .2073 .1962  
.831 .2530 .2563

ALPHA ( 2 ) = -.482 BETA ( 1 ) = -4.069 MACH = 1.1000 RN/L = 4.3184 PO = 2103.9 P = 985.34

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4089 -.5511  
.407 -.1795 -.1892  
.548 .0703 .1261  
.690 -.0437 .1594  
.831 .4183 .0833

ALPHA ( 2 ) = -.489 BETA ( 2 ) = -.059 MACH = 1.1000 RN/L = 4.3184 PO = 2103.9 P = 985.34

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5132 -.4567  
.407 -.1836 -.1730  
.548 .0999 .1099  
.690 .1625 .1189  
.831 .4378 .4277

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ARC11-0231A80 OTS(SR9=N- ORB=N ) ORB FUSE

(RE4C25)

ALPHA ( 2 ) = - .453 BETA ( 3 ) = 3.950 MACH = 1.1000 RN/L = 4.3184 PO = 2103.9 P = 985.34

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.6083	-.2518
.407	-.1890	-.1724
.548	.1048	.0690
.690	.1525	-.0786
.831	.0939	.4049

ALPHA ( 3 ) = 4.029 BETA ( 1 ) = -.059 MACH = 1.1031 RN/L = 4.3201 PO = 2102.0 P = 980.74

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5238	-.4745
.407	-.1663	-.1735
.548	.1691	.1697
.690	.0516	.0251
.831	.2778	.2554

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ARC11-0231A80 OTS(SRB=N- ORB=N )

ORB FUSE

(RE4C26) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.983 BETA ( 1 ) = .000 MACH = 1.2472 RN/L = 4.3616 PO = 2107.7 P = 816.70

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3356 -.2891  
.407 -.1601 -.1724  
.548 -.0616 -.0577  
.690 .0225 .0229  
.831 .1936 .1814

ALPHA ( 2 ) = -.443 BETA ( 1 ) = -4.006 MACH = 1.2481 RN/L = 4.3581 PO = 2107.7 P = 815.72

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2676 -.4011  
.407 -.1741 -.2995  
.548 -.0951 -.0667  
.690 -.0881 .0020  
.831 .3067 .0258

ALPHA ( 2 ) = -.426 BETA ( 2 ) = .003 MACH = 1.2481 RN/L = 4.3581 PO = 2107.7 P = 815.72

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3508 -.3079  
.407 -.1733 -.1800  
.548 -.0733 -.0720  
.690 .0152 .0046  
.831 .3366 .2687



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ARC11-0231A80 OTS(SRB=N- ORB=N ) ORB FUSE

(RE4C26)

ALPHA ( 2 ) = -.456 BETA ( 3 ) = 4.016 MACH = 1.2481 RN/L = 4.3581 PO = 2107.7 P = 815.72

SECTION ( 11ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LC

.260	-.4389	-.2241
.407	-.2723	-.1822
.548	-.0656	-.0885
.690	-.0036	-.0901
.831	.0281	.2607

ALPHA ( 3 ) = 4.020 BETA ( 1 ) = -.003 MACH = 1.2443 RN/L = 4.3536 PO = 2107.0 P = 819.62

SECTION ( 11ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3866	-.3405
.407	-.1920	-.2043
.548	-.1067	-.1131
.690	-.0203	-.0230
.831	.2148	.1714

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ARC11-0231A80 OTS(SRB=N- ORB=N ) ORB FUSE

(RE4C27) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2692.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.5000 IN. YMRP = .0000 IN.  
BREF = 1290.5000 IN. ZMRP = .0000 IN.  
SCALE = .0300

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.805 BETA ( 1 ) = .000 MACH = 1.4005 RN/L = 4.2336 PO = 2109.8 P = 662.52

SECTION : 1:ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3220 -.1815  
.407 -.1901 -.2058  
.546 -.3641 -.0605  
.690 .0268 .0110  
.831 .1676 .1594

ALPHA ( 2 ) = -.353 BETA ( 1 ) = -4.005 MACH = 1.3984 RN/L = 4.2397 PO = 2110.7 P = 664.83

SECTION : 1:ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.1560 -.2878  
.407 -.2023 -.3019  
.548 -.0654 -.0906  
.690 -.0650 -.0142  
.831 .2479 .0414

ALPHA ( 2 ) = -.367 BETA ( 2 ) = .000 MACH = 1.3984 RN/L = 4.2397 PO = 2110.7 P = 664.83

SECTION : 1:ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.2493 -.2020  
.407 -.2193 -.2360  
.548 -.0548 -.0645  
.690 -.0036 -.0045  
.831 .2379 .2063

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ARC11-0231A80 OTS(SRB=N- ORB=N ) ORB FUSE

(RE4027)

ALPHA ( 2 ) = -.400 BETA ( 3 ) = 4.012 MACH = 1.3984 RN/L = 4.2397 PO = 2110.7 P = 664.83

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3134	-.1180
.407	-.3061	-.1985
.548	-.0862	-.0572
.690	-.0202	-.0664
.831	.0595	.2579

ALPHA ( 3 ) = 3.983 BETA ( 1 ) = .000 MACH = 1.3983 RN/L = 4.2365 PO = 2109.8 P = 664.56

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.2602	-.2199
.407	-.2766	-.2910
.548	-.0867	-.0909
.690	-.0338	-.0354
.831	.2227	.1939

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C28) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -4.000 BETA ( 1 ) = -.016 MACH = .59820 RN/L = 3.3864 PO = 2123.2 P = 1666.9

SECTION ( 1 ) OPB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3291 -.3666  
.407 -.0479 -.0496  
.548 -.0108 -.0077  
.690 -.0090 -.0131  
.831 .0617 .0425

ALPHA ( 2 ) = -.264 BETA ( 1 ) = -4.034 MACH = .59700 RN/L = 3.3816 PO = 2123.7 P = 1668.9

SECTION ( 1 ) OPB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3069 -.4459  
.407 -.0893 -.097  
.548 -.0865 -.0551  
.690 -.0833 -.0741  
.831 .2829 -.1916

ALPHA ( 2 ) = -.261 BETA ( 2 ) = -.019 MACH = .59700 RN/L = 3.3816 PO = 2123.7 P = 1668.9

SECTION ( 1 ) OPB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3475 -.3864  
.407 -.0602 -.0626  
.548 -.0313 -.0306  
.690 -.0345 -.0406  
.831 .0532 .0576

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C28)

ALPHA ( 2 ) = -.274 BETA ( 3 ) = 3.991 MACH = .59700 RN/L = 3.3816 PO = 2123.7 P = 1668.9

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4098	-.3396
.407	-.0947	-.0861
.548	-.0568	-.0829
.690	-.0650	-.0766
.831	-.1797	.3006

ALPHA ( 3 ) = 4.013 BETA ( 1 ) = -.019 MACH = .59700 RN/L = 3.3862 PO = 2124.6 P = 1669.6

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3713	-.4157
.407	-.0933	-.0974
.548	-.0782	-.0782
.690	-.0791	-.0801
.831	.0461	.0721

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C29) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.980 BETA ( 1 ) = -.006 MACH = .90100 RN/L = 4.2493 PO = 2121.1 P = 1252.7

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8089 -.7570  
.407 .0137 .0143  
.549 .0393 .0409  
.690 .0219 .0109  
.831 .1079 .0659

ALPHA ( 2 ) = -.320 BETA ( 1 ) = -4.022 MACH = .90373 RN/L = 4.2509 PO = 2123.0 P = 1250.2

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7041 -.8952  
.407 -.0456 .0062  
.549 -.0594 -.0175  
.690 -.1559 -.0451  
.831 .2681 -.0322

ALPHA ( 2 ) = -.310 BETA ( 2 ) = -.009 MACH = .90373 RN/L = 4.2509 PO = 2123.0 P = 1250.2

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8009 -.7243  
.407 .0293 .0231  
.549 .0239 .0239  
.690 -.0281 -.0453  
.831 .1852 .1720

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C29)

ALPHA ( 2 ) = -.297 BETA ( 3 ) = 4.006 MACH = .90373 RN/L = 4.2509 PO = 2123.0 P = 1250.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7580	-.6197
.407	.0035	-.0436
.548	-.0147	-.0589
.690	-.0330	-.1831
.831	.0390	.2603

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = -.009 MACH = .89810 RN/L = 4.2418 PO = 2119.7 P = 1255.9

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7913	-.7059
.407	-.0866	-.0880
.548	-.0249	-.0237
.690	-.1178	-.1594
.831	.1127	.1046

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C30) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-09 = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -4.016 BETA ( 1 ) = -.003 MACH = 1.0992 RN/L = 4.3334 PO = 2116.2 P = 992.05

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5035 -.4440  
.407 -.1772 -.1738  
.548 -.0053 .0066  
.690 .2087 .1991  
.831 .2556 .2517

ALPHA ( 2 ) = -.370 BETA ( 1 ) = -.006 MACH = 1.1030 RN/L = 4.2966 PO = 2115.2 P = 987.00

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4045 -.5584  
.407 -.1889 -.2056  
.548 .0573 .1184  
.690 -.0410 .1589  
.831 .4297 .0843

ALPHA ( 2 ) = -.343 BETA ( 2 ) = .003 MACH = 1.1030 RN/L = 4.2966 PO = 2115.2 P = 987.00

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5096 -.4533  
.407 -.1829 -.1797  
.548 .0636 .0733  
.690 .1585 .1146  
.831 .4414 .4159



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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) ORB FUSE

(RE4C30)

ALPHA ( 2 ) = - .370 BETA ( 3 ) = 4.009 MACH = 1.1030 RN/L = 4.2966 PO = 2115.2 P = 987.00

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.6061	-.3579
.407	-.2030	-.1829
.548	.1044	.0594
.690	.1438	-.0759
.831	.1044	.3977

ALPHA ( 3 ) = 3.994 BETA ( 1 ) = -.003 MACH = 1.1097 RN/L = 4.2923 PO = 2114.0 P = 978.29

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5103	-.4684
.407	-.2085	-.2157
.548	.1451	.1412
.690	.0659	.0414
.831	.2977	.2682

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) ORB FUSE

(RE4C31) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.970 BETA ( 1 ) = -.003 MACH = 1.2502 RN/L = 4.3628 PO = 2115.4 P = 816.45

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/L0  
.260 -.3334 -.2872  
.407 -.1574 -.1712  
.548 -.0651 -.0599  
.690 .0231 .0171  
.831 .1966 .1816

ALPHA ( 2 ) = -.330 BETA ( 1 ) = -4.006 MACH = 1.2515 RN/L = 4.3608 PO = 2116.1 P = 815.32

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/L0  
.260 -.2635 -.3979  
.407 -.1746 -.3039  
.548 -.0942 -.0635  
.690 -.0919 .0008  
.831 .3231 .0245

ALPHA ( 2 ) = -.317 BETA ( 2 ) = .003 MACH = 1.2515 RN/L = 4.3608 PO = 2116.1 P = 815.32

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/L0  
.260 -.3466 -.3043  
.407 -.1728 -.1824  
.548 -.0780 -.0733  
.690 .0162 .0357  
.831 .3419 .2581

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE+C31)

ALPHA ( 2 ) = - .370 BETA ( 3 ) = 4.012 MACH = 1.2515 RN/L = 4.3608 PO = 2116.1 P = 815.32

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4331	-.2190
.407	-.2759	-.1819
.548	-.0644	-.0917
.690	-.0053	-.0922
.831	.0342	.2602

ALPHA ( 3 ) = 3.950 BETA ( 1 ) = -.003 MACH = 1.2493 RN/L = 4.3586 PO = 2116.9 P = 818.02

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3825	-.3373
.407	-.1925	-.2014
.548	-.1115	-.1147
.690	-.0185	-.0201
.831	.2291	.1783

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TABULATED SOURCE DATA - 1A80  
ARC11-0231A80 OTS(SRB=OFF ORB=OFF) ORB FUSE

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(RE4C32) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -4.043 BETA ( 1 ) = .000 MACH = 1.4047 RN/L = 4.2434 PO = 2120.4 P = 661.94

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.2161 -.1752  
.407 -.1853 -.1978  
.549 -.0654 -.0610  
.690 .0074 .0131  
.831 .2030 .1701

ALPHA ( 2 ) = -.195 BETA ( 1 ) = -4.012 MACH = 1.4028 RN/L = 4.2458 PO = 2120.4 P = 663.72

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.1513 -.2845  
.407 -.2012 -.3003  
.549 -.0664 -.0925  
.690 -.0581 -.0132  
.831 .2521 .0374

ALPHA ( 2 ) = -.211 BETA ( 2 ) = .000 MACH = 1.4028 RN/L = 4.2458 PO = 2120.4 P = 663.72

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.2458 -.2031  
.407 -.2164 -.2357  
.549 -.0664 -.0636  
.690 -.0215 -.0052  
.831 .2421 .1984

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C32)

ALPHA ( 2 ) = .083 BETA ( 3 ) = 4.006 MACH = 1.4028 RN/L = 4.2458 PO = 2120.4 P = 663.72

SECTION ( 11ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3142	-.1193
.407	-.3085	-.2086
.548	-.0856	-.0565
.690	-.0254	-.0805
.831	.0596	.2406

ALPHA ( 3 ) = 4.082 BETA ( 1 ) = .000 MACH = 1.3983 RN/L = 4.2463 PO = 2120.4 P = 667.87

SECTION ( 11ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.2631	-.2217
.407	-.2799	-.2928
.548	-.0923	-.0987
.690	-.0400	-.0420
.831	.2199	.1906

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C33) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 1.750 MACH = .000

ALPHA ( 1 ) = -3.953 BETA ( 1 ) = -.003 MACH = .59560 RN/L = 1.7428 PO = 1060.9 P = 834.63

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3247 -.3618  
.407 -.0428 -.0421  
.548 -.0084 -.0009  
.690 -.0029 -.0077  
.831 .0721 .0714

ALPHA ( 2 ) = -.271 BETA ( 1 ) = -4.044 MACH = .59443 RN/L = 1.7407 PO = 1060.2 P = 834.82

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3156 -.4513  
.407 -.0991 -.1065  
.548 -.1059 -.0642  
.690 -.0960 -.0890  
.831 .2861 -.1649

ALPHA ( 2 ) = -.284 BETA ( 2 ) = -.031 MACH = .59443 RN/L = 1.7407 PO = 1060.2 P = 834.82

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3411 -.3805  
.407 -.0526 -.0533  
.548 -.0255 -.0221  
.690 -.0193 -.0234  
.831 .0563 .0699

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C33)

ALPHA ( 2 ) = - .343 BETA ( 3 ) = 3.984 MACH = .59443 RN/L = 1.7407 PO = 1060.2 P = 834.82

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4112	-.3454
.407	-.1097	-.1000
.548	-.0794	-.1009
.690	-.0799	-.0916
.831	-.1612	.3060

ALPHA ( 3 ) = 3.963 BETA ( 1 ) = -.003 MACH = .59300 RN/L = 1.7403 PO = 1060.2 P = 835.76

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3816	-.4204
.407	-.1061	-.1082
.548	-.0972	-.0875
.690	-.0894	-.0998
.831	.0345	.0782

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C34) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = .000  
RN/L = 2.250 MACH = .900

ALPHA ( 1 ) = -3.947 BETA ( 1 ) = .000 MACH = .90000 RN/L = 2.1578 PO = 1061.6 P = 627.70

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8110 -.7608  
.407 .0029 .0049  
.548 .0239 .0327  
.690 .0178 .0054  
.831 .1115 .0869

ALPHA ( 2 ) = -.264 BETA ( 1 ) = -4.044 MACH = .90150 RN/L = 2.1576 PO = 1060.4 P = 625.99

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7164 -.8869  
.407 -.0473 .0005  
.548 -.0644 -.0180  
.690 -.1416 -.0444  
.831 .2457 -.0373

ALPHA ( 2 ) = -.271 BETA ( 2 ) = -.031 MACH = .90150 RN/L = 2.1576 PO = 1060.4 P = 625.98

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7426 -.6642  
.407 -.0536 -.0448  
.548 .0089 .0181  
.690 -.0364 -.0559  
.831 .1732 .1624



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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C34)

ALPHA ( 2 ) = -.304 BETA ( 3 ) = 3.984 MACH = .90150 RN/L = 2.1576 PO = 1060.4 P = 625.98

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.8705	-.6268
.407	-.0123	-.0518
.548	-.0329	-.0636
.690	-.0376	-.1749
.831	.0111	.2698

ALPHA ( 3 ) = 3.990 BETA ( 1 ) = -.003 MACH = .90350 RN/L = 2.1629 PO = 1051.6 P = 625.33

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7417	-.6602
.407	-.1279	-.1383
.548	-.0289	-.0221
.690	-.1102	-.1542
.831	.0928	.1304

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C35) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 2.250 MACH = 1.100

ALPHA ( 1 ) = -3.957 BETA ( 1 ) = .000 MACH = 1.0935 RN/L = 2.2424 PO = 1058.8 P = 499.91

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5212 -.4593  
.407 -.1847 -.1817  
.548 .0403 .0614  
.690 .1959 .1825  
.831 .2371 .2371

ALPHA ( 2 ) = -.225 BETA ( 1 ) = -4.009 MACH = 1.0961 RN/L = 2.2501 PO = 1061.4 P = 499.48

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4277 -.5731  
.407 -.1804 -.1899  
.548 .0589 .1031  
.690 -.0569 .1454  
.831 .3973 .0720

ALPHA ( 2 ) = -.225 BETA ( 2 ) = .000 MACH = 1.0961 RN/L = 2.2501 PO = 1061.4 P = 499.48

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5293 -.4719  
.407 -.1984 -.1935  
.548 .1418 .1425  
.690 .1515 .1097  
.831 .4027 .3956

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C35)

ALPHA ( 2 ) = -.231 BETA ( 3 ) = 4.012 MACH = 1.0961 RN/L = 2.2501 PO = 1061.4 P = 499.48

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.6202	-.3785
.407	-.1821	-.1726
.548	.0929	.0585
.690	.1369	-.0894
.831	.0761	.3766

ALPHA ( 3 ) = 4.016 BETA ( 1 ) = -.003 MACH = 1.1017 RN/L = 2.2510 PO = 1060.9 P = 495.81

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5369	-.4850
.407	-.2093	-.2095
.548	.1533	.1499
.690	.0535	.0208
.831	.2684	.2365

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C36) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LPEF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 2.250 MACH = 1.250

ALPHA ( 1 ) = -3.993 BETA ( 1 ) = .003 MACH = 1.2486 RN/L = 2.2675 PO = 1060.9 P = 410.21

SECTION ( 110PB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3433 -.2946  
.407 -.1674 -.1766  
.548 -.0727 -.0670  
.690 .0159 .0063  
.831 .1904 .1790

ALPHA ( 2 ) = -.145 BETA ( 1 ) = -4.003 MACH = 1.2488 RN/L = 2.2680 PO = 1060.9 P = 410.21

SECTION ( 110PB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.2813 -.4072  
.407 -.1815 -.3122  
.548 -.1029 -.0755  
.690 -.0856 -.0057  
.831 .2949 .0283

ALPHA ( 2 ) = -.129 BETA ( 2 ) = .003 MACH = 1.2488 RN/L = 2.2680 PO = 1060.9 P = 410.21

SECTION ( 110PB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3503 -.3168  
.407 -.1768 -.1841  
.548 -.0945 -.0826  
.690 .0033 -.0081  
.831 .2886 .2345

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ARC11-0231A80 OTS(SRB-OFF ORB-OFF)

ORB FUSE

(RE4C36)

ALPHA ( 2 ) = -.175 BETA ( 3 ) = 4.009 MACH = 1.2488 RN/L = 2.2680 PO = 1060.9 P = 410.21

SECTION ( 11ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4441	-.2369
.407	-.2786	-.1876
.548	-.0713	-.0999
.690	-.0056	-.0970
.831	.0209	.2482

ALPHA ( 3 ) = 4.072 BETA ( 1 ) = .003 MACH = 1.2496 RN/L = 2.2672 PO = 1060.9 P = 409.77

SECTION ( 11ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3899	-.3425
.407	-.1946	-.2016
.548	-.1121	-.1185
.690	-.0206	-.0289
.831	.2029	.1736

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C37) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = .000  
RN/L = 2.250 MACH = 1.400

ALPHA ( 1 ) = -4.013 BETA ( 1 ) = .003 MACH = 1.3996 RN/L = 2.2349 PO = 1061.6 P = 333.70

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2324 -.1882  
.407 -.2009 -.2118  
.548 -.0736 -.0708  
.690 -.0022 .0018  
.831 .1801 .1551

ALPHA ( 2 ) = -.241 BETA ( 1 ) = -4.006 MACH = 1.3997 RN/L = 2.2285 PO = 1060.0 P = 333.23

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.1692 -.2934  
.407 -.2151 -.3109  
.548 -.0791 -.1029  
.690 -.0781 -.0252  
.831 .2333 .0349

ALPHA ( 2 ) = -.264 BETA ( 2 ) = .000 MACH = 1.3997 RN/L = 2.2285 PO = 1060.0 P = 333.23

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2607 -.2147  
.407 -.2327 -.2502  
.548 -.0744 -.0769  
.690 -.0116 -.0159  
.831 .2149 .1836

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) ORB FUSE

(RE4C37)

ALPHA ( 2 ) = -.267 BETA ( 3 ) = 4.009 MACH = 1.3997 RN/L = 2.2285 PO = 1060.0 P = 333.23

SECTION ( 110RB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3220	-.1298
.407	-.3157	-.2116
.548	-.0980	-.0723
.690	-.0306	-.0804
.831	.0469	.2466

ALPHA ( 3 ) = 4.010 BETA ( 1 ) = .003 MACH = 1.3956 RN/L = 2.2367 PO = 1060.2 P = 335.22

SECTION ( 110RB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.2754	-.2292
.407	-.2900	-.2997
.548	-.1030	-.1065
.690	-.0469	-.0488
.831	.1951	.1757

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C38) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-0B = .000  
RN/L = 1.750 MACH = .600

ALPHA ( 1 ) = -3.980 BETA ( 1 ) = -.003 MACH = .59910 RN/L = 1.7583 PO = 1060.9 P = 832.35

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3367 -.3666  
.407 -.0568 -.0554  
.548 -.0254 -.0213  
.690 -.0281 -.0349  
.831 .0470 .0367

ALPHA ( 2 ) = -.314 BETA ( 1 ) = -4.044 MACH = .59907 RN/L = 1.7606 PO = 1056.1 P = 835.42

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3112 -.4448  
.407 -.0875 -.0997  
.548 -.0974 -.0599  
.690 -.0883 -.0869  
.831 .2790 -.1984

ALPHA ( 2 ) = -.317 BETA ( 2 ) = -.009 MACH = .59907 RN/L = 1.7606 PO = 1066.1 P = 835.42

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3510 -.3979  
.407 -.0673 -.0707  
.548 -.0467 -.0392  
.690 -.0519 -.0539  
.831 .0375 .0416



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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE (RE4C38)

ALPHA ( 2 ) = - .327 BETA ( 3 ) = 3.981 MACH = .59907 RN/L = 1.7686 PO = 1066.1 P = 836.42

SECTION ( 11ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4096	-.3396
.407	-.1093	-.0947
.548	-.0763	-.0959
.690	-.0878	-.1015
.831	-.1902	.2978

ALPHA ( 3 ) = 3.950 BETA ( 1 ) = -.003 MACH = .60350 RN/L = 1.7801 PO = 1066.6 P = 833.90

SECTION ( 11ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3815	-.4170
.407	-.0993	-.1000
.548	-.0895	-.0841
.690	-.0873	-.0973
.831	.0220	.0590

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

.RE4C39) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 2.250 MACH = .900

ALPHA ( 1 ) = -3.986 BETA ( 1 ) = .003 MACH = .89730 RN/L = 2.1589 PO = 1063.0 P = 630.35

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.250 -.8160 -.7613  
.407 -.0083 -.0071  
.548 .0227 .0328  
.690 .0151 .0042  
.831 .1561 .0856

ALPHA ( 2 ) = -.294 BETA ( 1 ) = -4.044 MACH = .90407 RN/L = 2.1638 PO = 1061.8 P = 625.06

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.7186 -.8908  
.407 -.0529 -.0054  
.548 -.0700 -.0224  
.690 -.1543 -.0517  
.831 .2395 -.0429

ALPHA ( 2 ) = -.310 BETA ( 2 ) = -.028 MACH = .90407 RN/L = 2.1638 PO = 1061.8 P = 625.06

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.7979 -.7237  
.407 .0339 .0319  
.548 .0110 .0189  
.690 -.0315 -.0544  
.831 .1857 .1723

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C39)

ALPHA ( 2 ) = -.320 BETA ( 3 ) = 3.981 MACH = .90407 RN/L = 2.1638 PO = 1051.8 P = 625.06

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.9598	-.6364
.407	-.0055	-.0502
.549	-.0328	-.0596
.690	-.0378	-.1885
.831	-.0147	.2584

ALPHA ( 3 ) = 3.970 BETA ( 1 ) = .000 MACH = .90120 RN/L = 2.1596 PO = 1060.2 P = 623.02

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7421	-.6614
.407	-.1318	-.1286
.548	-.0301	-.0257
.690	-.1113	-.1553
.831	.0898	.0875

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C40) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 2.250 MACH = 1.100

ALPHA ( 1 ) = -3.801 BETA ( 1 ) = -.006 MACH = 1.0940 RN/L = 2.2469 PO = 1059.5 P = 499.92

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5208 -.4589  
.407 -.1839 -.1819  
.548 .0514 .0701  
.690 .1973 .1814  
.831 .2374 .2370

ALPHA ( 2 ) = -.304 BETA ( 1 ) = -4.003 MACH = 1.0971 RN/L = 2.2528 PO = 1061.4 P = 498.93

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4279 -.5724  
.407 -.1838 -.1916  
.548 .0654 .1143  
.690 -.0501 .1503  
.831 .3846 .0739

ALPHA ( 2 ) = -.267 BETA ( 2 ) = .003 MACH = 1.0971 RN/L = 2.2528 PO = 1061.4 P = 498.93

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5253 -.4696  
.407 -.1966 -.1919  
.548 .1301 .1331  
.690 .1562 .1130  
.831 .3970 .3973

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C40)

ALPHA ( 2 ) = -.390 BETA ( 3 ) = 4.016 MACH = 1.0971 RN/L = 2.2528 PO = 1061.4 P = 498.93

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.6160	-.3774
.407	-.1868	-.1726
.549	.0953	.0628
.690	.1443	-.0890
.831	.0764	.3812

ALPHA ( 3 ) = 3.983 BETA ( 1 ) = .003 MACH = 1.1029 RN/L = 2.2596 PO = 1063.7 P = 496.39

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5361	-.4846
.407	-.2137	-.2147
.548	.1518	.1505
.690	.0583	.0248
.831	.2676	.2366

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) ORB FUSE

(RE4041) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XM RP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 2.500 MACH = .600

ALPHA ( 1 ) = -4.000 BETA ( 1 ) = -.022 MACH = .60170 RN/L = 2.5509 PO = 1557.4 P = 1219.4

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3246 -.3592  
.407 -.0438 -.0415  
.548 -.0099 -.0016  
.690 -.0079 -.0106  
.831 .0613 .0567

ALPHA ( 2 ) = -.261 BETA ( 1 ) = -4.041 MACH = .60297 RN/L = 2.5529 PO = 1556.0 P = 1217.1

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3090 -.4432  
.407 -.0835 -.0928  
.548 -.0860 -.0496  
.690 -.0799 -.0678  
.831 .2892 -.1802

ALPHA ( 2 ) = -.271 BETA ( 2 ) = -.025 MACH = .60237 RN/L = 2.5529 PO = 1556.0 P = 1217.1

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3395 -.3807  
.407 -.0504 -.0504  
.548 -.0227 -.0209  
.690 -.0229 -.0325  
.831 .0607 .0603

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C41)

ALPHA ( 2 ) = - .343 BETA ( 3 ) = 3.991 MACH = .60297 RN/L = 2.5529 PO = 1556.0 P = 1217.1

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4021	-.3385
.407	-.0907	-.0811
.548	-.0562	-.0815
.690	-.0586	-.0714
.831	-.1749	.3079

ALPHA ( 3 ) = 3.944 BETA ( 1 ) = -.022 MACH = .60230 RN/L = 2.5548 PO = 1556.7 P = 1218.3

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3757	-.4131
.407	-.0904	-.0946
.548	-.0746	-.0751
.690	-.0756	-.0802
.831	.0344	.0815

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C42) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 3.250 MACH = .900

ALPHA ( 1 ) = -3.930 BETA ( 1 ) = .003 MACH = .90330 RN/L = 3.1425 PO = 1558.1 P = 918.01

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8466 -.7600  
.407 .0141 .0154  
.548 .0250 .0331  
.690 .0157 .0054  
.831 .1065 .0889

ALPHA ( 2 ) = -.284 BETA ( 1 ) = -4.041 MACH = .90200 RN/L = 3.1294 PO = 1556.9 P = 918.58

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7006 -.8799  
.407 -.0413 .0127  
.548 -.0648 -.0148  
.690 -.1477 -.0407  
.831 .2512 -.0313

ALPHA ( 2 ) = -.281 BETA ( 2 ) = -.028 MACH = .90200 RN/L = 3.1294 PO = 1556.9 P = 918.58

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8155 -.7382  
.407 .0171 .0171  
.548 .0053 .0108  
.690 -.0392 -.0569  
.831 .1770 .1588



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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C42)

ALPHA ( 2 ) = -.248 BETA ( 3 ) = 3.994 MACH = .90200 RN/L = 3.1294 PO = 1556.9 P = 918.58

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.8512	-.6273
.407	.0000	-.0454
.548	-.0268	-.0588
.690	-.0292	-.1683
.831	-.0036	.2814

ALPHA ( 3 ) = 3.960 BETA ( 1 ) = .000 MACH = .89670 RN/L = 3.1185 PO = 1557.4 P = 924.11

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7575	-.6702
.407	-.1152	-.1092
.548	-.0330	-.0294
.690	-.1208	-.1586
.831	.0981	.0976

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) ORB FUSE

(RE4C43) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = .000 ELV-08 = .000  
RN/L = 3.250 MACH = 1.100

ALPHA ( 1 ) = -4.016 BETA ( 1 ) = .003 MACH = 1.0981 RN/L = 3.2788 PO = 1555.3 P = 730.16

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5094 -.4521  
.407 -.1820 -.1783  
.548 .0020 .0140  
.690 .2046 .1935  
.831 .2472 .2435

ALPHA ( 2 ) = -.287 BETA ( 1 ) = -4.006 MACH = 1.0996 RN/L = 3.2682 PO = 1553.2 P = 727.81

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4180 -.5665  
.407 -.1852 -.1942  
.548 .0634 .1144  
.690 -.0515 .1534  
.831 .4067 .0781

ALPHA ( 2 ) = -.291 BETA ( 2 ) = .000 MACH = 1.0996 RN/L = 3.2682 PO = 1553.2 P = 727.81

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5164 -.4623  
.407 -.1887 -.1655  
.548 .1029 .1107  
.690 .1590 .1158  
.831 .4225 .4036

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C43)

ALPHA ( 2 ) = -.310 BETA ( 3 ) = 4.006 MACH = 1.0996 RN/L = 3.2682 PO = 1553.2 P = 727.81

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.6119	-.3700
.407	-.1883	-.1804
.548	.0996	.0654
.690	.1434	-.0847
.831	.0947	.3895

ALPHA ( 3 ) = .4.016 BETA ( 1 ) = .003 MACH = 1.1070 RN/L = 3.2713 PO = 1554.6 P = 721.83

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5255	-.4768
.407	-.2141	-.2175
.548	.1509	.1466
.690	.0632	.0343
.831	.2813	.2543

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C44) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 3.250 MACH = 1.250

ALPHA ( 1 ) = -3.953 BETA ( 1 ) = .000 MACH = 1.2532 RN/L = 3.2918 PO = 1554.6 P = 597.59

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3334 -.2882  
.407 -.1605 -.1696  
.548 -.0662 -.0616  
.690 .0206 .0163  
.831 .1949 .1743

ALPHA ( 2 ) = -.287 BETA ( 1 ) = -4.003 MACH = 1.2509 RN/L = 3.2855 PO = 1552.7 P = 598.69

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2815 -.4115  
.407 -.1826 -.3032  
.548 -.1069 -.0773  
.690 -.0940 -.0064  
.831 .3052 .0189

ALPHA ( 2 ) = -.277 BETA ( 2 ) = .003 MACH = 1.2509 RN/L = 3.2855 PO = 1552.7 P = 598.69

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3488 -.3977  
.407 -.1753 -.1928  
.548 -.0813 -.0767  
.690 .0111 .0012  
.831 .3162 .2581

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FLSE

(RE4044)

ALPHA ( 2 ) = - .376    BETA ( 3 ) = 4.012    MACH = 1.2509    RN/L = 3.2655    PO = 1552.7    P = 598.69

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4313	-.2222
.407	-.2699	-.1841
.548	-.0656	-.0971
.690	-.0025	-.0394
.831	.0326	.2559

ALPHA ( 3 ) = 3.947    BETA ( 1 ) = -.003    MACH = 1.2488    RN/L = 3.2905    PO = 1553.9    P = 600.81

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3862	-.3408
.407	-.1919	-.1984
.548	-.1101	-.1140
.690	-.0228	-.0247
.831	.2135	.1688

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C45) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-OB = .000  
RN/L = 3.250 MACH = 1.400

ALPHA ( 1 ) = -3.990 BETA ( 1 ) = -.003 MACH = 1.4024 RN/L = 3.2259 PO = 1554.6 P = 486.87

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.2252 -.1848  
.407 -.1952 -.2080  
.548 -.0689 -.0659  
.690 .0008 .0045  
.831 .1889 .1547

ALPHA ( 2 ) = -.284 BETA ( 1 ) = -4.000 MACH = 1.4054 RN/L = 3.2190 PO = 1553.7 P = 484.53

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.1548 -.2835  
.407 -.2038 -.2992  
.548 -.0678 -.0959  
.690 -.0703 -.0176  
.831 .2449 .0389

ALPHA ( 2 ) = -.297 BETA ( 2 ) = .000 MACH = 1.4054 RN/L = 3.2190 PO = 1553.7 P = 484.53

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.2472 -.2073  
.407 -.2197 -.2387  
.548 -.0683 -.0574  
.690 -.0062 -.0072  
.831 .2298 .1911

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C45)

ALPHA ( 2 ) = -.294 BETA ( 3 ) = 4.009 MACH = 1.4054 RN/L = 3.2190 PO = 1553.7 P = 484.53

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3138	-.1199
.407	-.3091	-.2026
.548	-.0891	-.0625
.690	-.0276	-.0723
.831	.0562	.2493

ALPHA ( 3 ) = 3.980 BETA ( 1 ) = .000 MACH = 1.4028 RN/L = 3.2136 PO = 1553.2 P = 486.18

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.2617	-.2185
.407	-.2802	-.2934
.548	-.0904	-.1000
.690	-.0396	-.0422
.831	.2151	.1827

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C46) 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = .000  
RN/L = 2.500 MACH = .600

ALPHA ( 1 ) = -3.894 BETA ( 1 ) = -.022 MACH = .60060 RN/L = 2.5569 PO = 1558.8 P = 1221.5

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3326 -.3732  
.407 -.0471 -.0494  
.548 -.0140 -.0117  
.690 -.0198 -.0244  
.831 .0412 .0227

ALPHA ( 2 ) = -.350 BETA ( 1 ) = -4.041 MACH = .59890 RN/L = 2.5548 PO = 1557.9 P = 1222.4

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3104 -.4460  
.407 -.0849 -.0973  
.548 -.0939 -.0588  
.690 -.0941 -.0890  
.831 .2735 -.2173

ALPHA ( 2 ) = -.320 BETA ( 2 ) = -.025 MACH = .59890 RN/L = 2.5548 PO = 1557.9 P = 1222.4

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3498 -.3869  
.407 -.0663 -.0640  
.548 -.0452 -.0433  
.690 -.0561 -.0598  
.831 .0320 .0371



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ARC11-0231A80 OTS(SRB=N ORB=N )

ORB FUSE

(RE4046)

ALPHA ( 2 ) = - .337 BETA ( 3 ) = 3.994 MACH = .59890 RN/L = 2.5548 PO = 1557.9 P = 1222.4

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4145	-.3492
.407	-.1127	-.1016
.548	-.0869	-.1117
.690	-.1034	-.1174
.831	-.2116	.2810

ALPHA ( 3 ) = 4.076 BETA ( 1 ) = -.028 MACH = .60170 RN/L = 2.5615 PO = 1555.3 P = 1217.7

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3730	-.4146
.407	-.0901	-.0947
.548	-.0779	-.0746
.690	-.0808	-.0886
.831	.0308	.0506

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C47) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 3.250 MACH = .900

ALPHA ( 1 ) = -4.033 BETA ( 1 ) = .000 MACH = .90410 RN/L = 3.1247 PO = 1556.7 P = 916.32

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8295 -.7510  
.407 .0178 .0184  
.548 .0358 .0445  
.690 .0279 .0151  
.831 .1079 .0896

ALPHA ( 2 ) = -.343 BETA ( 1 ) = -4.044 MACH = .90470 RN/L = 3.1302 PO = 1559.3 P = 917.26

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7073 -.8862  
.407 -.0422 .0098  
.548 -.0606 -.0134  
.690 -.1473 -.0429  
.831 .2513 -.0335

ALPHA ( 2 ) = -.340 BETA ( 2 ) = -.028 MACH = .90470 RN/L = 3.1302 PO = 1559.3 P = 917.26

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7972 -.7228  
.407 .0332 .0329  
.548 .0140 .0210  
.690 -.0317 -.0514  
.831 .1831 .1580

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C47)

ALPHA ( 2 ) = -.340 BETA ( 3 ) = 3.991 MACH = .90470 RN/L = 3.1302 PO = 1559.3 P = 917.26

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

X0/L0

.260	-.8417	-.6218
.407	-.0062	-.0400
.548	-.0205	-.0483
.690	-.0250	-.1599
.831	.0073	.2766

ALPHA ( 3 ) = 3.927 BETA ( 1 ) = -.028 MACH = .90080 RN/L = 3.1258 PO = 1559.5 P = 921.25

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

X0/L0

.260	-.7553	-.6721
.407	-.1112	-.1112
.548	-.0278	-.0237
.690	-.1165	-.1605
.831	.0990	.0851

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C48) ( 13 JUL 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = .000  
RN/L = 3.250 MACH = 1.100

ALPHA ( 1 ) = -3.934 BETA ( 1 ) = .003 MACH = 1.0985 RN/L = 3.2696 PO = 1558.8 P = 731.42

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5081 -.4506  
.407 -.1806 -.1760  
.548 .0038 .0174  
.690 .2037 .1929  
.831 .2450 .2449

ALPHA ( 2 ) = -.413 BETA ( 1 ) = -4.006 MACH = 1.1014 RN/L = 3.2674 PO = 1557.4 P = 728.17

SECTION ( 1 ) OPB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4122 -.5633  
.407 -.1883 -.1989  
.548 .0662 .1190  
.690 -.0436 .1557  
.831 .4060 .0820

ALPHA ( 2 ) = -.443 BETA ( 2 ) = .000 MACH = 1.1014 RN/L = 3.2674 PO = 1557.4 P = 728.17

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5154 -.4611  
.407 -.1878 -.1839  
.548 .0846 .0952  
.690 .1559 .1151  
.831 .4236 .4071

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ARC11-0231A80 OTS(SRB=N ORB=N )

ORB FUSE

(RE4C48)

ALPHA ( 2 ) = -.420 BETA ( 3 ) = 4.016 MACH = 1.1014 RN/L = 3.2674 PO = 1557.4 P = 728.17

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XC/LO

.250	-.6096	-.3667
.407	-.1953	-.1762
.548	.1019	.0680
.690	.1495	-.0825
.831	.0919	.4027

ALPHA ( 3 ) = 3.884 BETA ( 1 ) = .000 MACH = 1.1080 RN/L = 3.2705 PO = 1558.1 P = 722.58

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XC/LO

.250	-.5234	-.4737
.407	-.2131	-.2170
.548	.1459	.1486
.690	.0639	.0390
.831	.2818	.2619

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) ORB FUSE

(RE4049) ( 21 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
SREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = 8.000 ELV-08 = 4.000  
RN/L = 4.250 ALPHA = .000

BETA ( 1 ) = -.063 MACH ( 1 ) = .908 ALPHA = .97925-01 RN/L = 4.3824 PO = 2112.8 P = 1025.7

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8014 -.7296  
.407 .0330 .0314  
.540 .0149 .0149  
.690 -.0441 -.0625  
.831 .1833 .1625

BETA ( 1 ) = -.063 MACH ( 2 ) = .947 ALPHA = .87925-01 RN/L = 4.3824 PO = 2112.8 P = 1025.7

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7649 -.7011  
.407 .0604 .0564  
.540 .0590 .0602  
.690 -.0179 -.0456  
.831 .2235 .2099

BETA ( 1 ) = -.063 MACH ( 3 ) = .998 ALPHA = .87925-01 RN/L = 4.3824 PO = 2112.8 P = 1025.7

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.6829 -.6113  
.407 -.1168 -.1096  
.540 .1259 .1268  
.690 .0527 .0205  
.831 .2997 .2901

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C49)

BETA ( 1 ) = -.063 MACH ( 4 ) = 1.050 ALPHA = .87925-01 RN/L = 4.3824 PO = 2112.8 P = 1025.7

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5947	-.5280
.407	-.1838	-.1813
.548	.1283	.1295
.690	.0791	.0290
.831	.3503	.3328

BETA ( 1 ) = -.063 MACH ( 5 ) = 1.102 ALPHA = .87925-01 RN/L = 4.3824 PO = 2112.8 P = 1025.7

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5137	-.4541
.407	-.1846	-.1793
.548	.1644	.1627
.690	.1507	.1016
.831	.4213	.3779

BETA ( 1 ) = -.063 MACH ( 6 ) = 1.146 ALPHA = .87925-01 RN/L = 4.3824 PO = 2112.8 P = 1025.7

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4607	-.4081
.407	-.1614	-.1627
.548	-.0615	-.0582
.690	.0532	.0385
.831	.4100	.3643

BETA ( 1 ) = -.063 MACH ( 7 ) = 1.196 ALPHA = .87925-01 RN/L = 4.3824 PO = 2112.8 P = 1025.7

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4099	-.3600
.407	-.1579	-.1533
.548	-.0823	-.0800
.690	.0154	.0089
.831	.3571	.3355

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C43)

BETA ( 1 ) = -.063 MACH ( 8 ) = 1.253 ALPHA = .87925-01 RN/L = 4.3824 PO = 2112.8 P = 1025.7

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3553	-.3077
.407	-.1695	-.1736
.548	-.0787	-.0796
.690	.0086	.0013
.831	.3515	.3097



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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C50) ( 21 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-IB = 8.000 ELV-OB = 4.000  
RN/L = 4.250 ALPHA = .000

BETA ( 1 ) = -.063 MACH ( 1 ) = .693 ALPHA = -.66125-02 RN/L = 4.3693 PO = 2107.0 P = 1025.6

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8332 -.7610  
.407 -.0014 -.0008  
.548 -.0020 .0002  
.690 -.0586 -.0800  
.831 .1526 .1398

BETA ( 1 ) = -.063 MACH ( 2 ) = .948 ALPHA = -.66125-02 RN/L = 4.3693 PO = 2107.0 P = 1025.6

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7657 -.7025  
.407 .0668 .0597  
.548 .0595 .0603  
.690 -.0153 -.0421  
.831 .2263 .2121

BETA ( 1 ) = -.063 MACH ( 3 ) = .925 ALPHA = -.66125-02 RN/L = 4.3693 PO = 2107.0 P = 1025.6

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.6881 -.6147  
.407 -.0858 -.0913  
.548 .1240 .1251  
.690 .0515 .0196  
.831 .2950 .2910

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE (RE4C50)

BETA ( 1 ) = -.063 MACH ( 4 ) = 1.052 ALPHA = -.66125-02 RN/L = 4.3693 PO = 2107.0 P = 1025.6

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5904	-.5232
.407	-.1772	-.1777
.548	.1327	.1356
.690	.0876	.0387
.831	.3664	.3443

BETA ( 1 ) = -.063 MACH ( 5 ) = 1.098 ALPHA = -.66125-02 RN/L = 4.3693 PO = 2107.0 P = 1025.6

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5177	-.4577
.407	-.1882	-.1827
.548	.1620	.1624
.690	.1488	.1013
.831	.4208	.3932

BETA ( 1 ) = -.063 MACH ( 6 ) = 1.149 ALPHA = -.66125-02 RN/L = 4.3693 PO = 2107.0 P = 1025.6

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4561	-.4024
.407	-.1575	-.1587
.548	-.0552	-.0525
.690	.0343	.0251
.831	.3976	.3800

BETA ( 1 ) = -.063 MACH ( 7 ) = 1.197 ALPHA = -.66125-02 RN/L = 4.3693 PO = 2107.0 P = 1025.6

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4086	-.3579
.407	-.1567	-.1626
.548	-.0751	-.0738
.690	.0232	.0153
.831	.3582	.3334

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ARC11-0231A80 OTS(SRB=N ORB=N )

ORB FUSE

(RE4C50)

BETA ( 1 ) = -.063 MACH ( 8 ) = 1.250 ALPHA = -.66125-02 RN/L = 4.3693 PO = 2107.0 P = 1025.6

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3567	-.3089
.407	-.1707	-.1747
.548	-.0795	-.0781
.690	.0092	.0039
.831	.3518	.3097

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) ORB FUSE

(RE4C51) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = 8.000 ELV-0B = 4.000  
RN/L = 4.250 MACH = .980

ALPHA ( 1 ) = -3.950 BETA ( 1 ) = -.063 MACH = .98240 RN/L = 4.3057 PO = 2116.2 P = 1141.0

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.7042 -.6242  
.407 -.0056 .0089  
.548 .1428 .1470  
.690 .1047 .0913  
.831 .2293 .2206

ALPHA ( 2 ) = -.416 BETA ( 1 ) = -4.075 MACH = .98283 RN/L = 4.3109 PO = 2116.4 P = 1140.5

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.5659 -.7669  
.407 -.0584 -.1362  
.548 .0125 .0922  
.690 -.1056 .0476  
.831 .3305 -.0243

ALPHA ( 2 ) = -.386 BETA ( 2 ) = -.063 MACH = .98283 RN/L = 4.3109 PO = 2116.4 P = 1140.5

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.6967 -.6239  
.407 -.0156 -.0093  
.548 .1244 .1260  
.690 .0503 .0242  
.831 .2910 .2820

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TABULATED SOURCE DATA - 1A80

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APC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C51)

ALPHA ( 2 ) = -.370 BETA ( 3 ) = 3.950 MACH = .98283 RN/L = 4.3109 PO = 2116.4 P = 1140.5

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LC

.260	-.8207	-.4892
.407	-.1179	-.0844
.548	.0869	.0123
.690	.0507	-.1639
.831	.0020	.3306

ALPHA ( 3 ) = 4.076 BETA ( 1 ) = -.063 MACH = .98530 RN/L = 4.3166 PO = 2116.2 P = 1137.1

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LC

.260	-.6988	-.6413
.407	-.1027	-.1007
.548	.0765	.0759
.690	-.0568	-.1015
.831	.1777	.1682

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4052) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = 4.000  
RN/L = 4.250 MACH = .980

ALPHA ( 1 ) = -3.930 BETA ( 1 ) = -.063 MACH = .97970 RN/L = 4.2999 PO = 2109.1 P = 1140.7

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7113 -.6295  
.407 .0186 .0050  
.548 .1388 .1433  
.690 .1009 .0870  
.831 .2278 .2249

ALPHA ( 2 ) = -.519 BETA ( 1 ) = -4.078 MACH = .98183 RN/L = 4.3033 PO = 2108.9 P = 1137.8

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5700 -.7709  
.407 -.0424 -.1248  
.548 .0159 .0908  
.690 -.0999 .0434  
.831 .3284 -.0329

ALPHA ( 2 ) = -.476 BETA ( 2 ) = -.063 MACH = .98183 RN/L = 4.3033 PO = 2108.9 P = 1137.8

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.6963 -.6208  
.407 -.0034 -.0115  
.548 .1279 .1296  
.690 .0552 .0276  
.831 .2930 .2881

C3  
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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE (RE4C52)

ALPHA ( 2 ) = -.499 BETA ( 3 ) = 3.953 MACH = .98183 RN/L = 4.3033 PO = 2108.9 P = 1137.8

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.8254	-.4936
.407	-.1124	-.0747
.548	.0883	.0170
.690	.0516	-.1589
.831	-.0015	.3348

ALPHA ( 3 ) = 3.993 BETA ( 1 ) = -.063 MACH = .98140 RN/L = 4.3055 PO = 2109.8 P = 1138.9

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.250	-.7083	-.6525
.407	-.0765	-.0817
.548	.0698	.0596
.690	-.0627	-.1100
.831	.1679	.1636

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) ORB FUSE

(RE4C53) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = 8.000 ELV-08 = 4.000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.944 BETA ( 1 ) = .000 MACH = .60320 RN/L = 3.4712 PO = 2123.2 P = 1660.4

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3334 -.3711  
.407 -.0496 -.0499  
.548 -.0348 -.0193  
.690 -.0260 -.0303  
.831 .0358 .0125

ALPHA ( 2 ) = -.320 BETA ( 1 ) = -4.050 MACH = .60547 RN/L = 3.4696 PO = 2122.3 P = 1656.7

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3116 -.4539  
.407 -.0914 -.0975  
.548 -.1091 -.0634  
.690 -.0963 -.0889  
.831 .2660 -.2430

ALPHA ( 2 ) = -.297 BETA ( 2 ) = .000 MACH = .60547 RN/L = 3.4696 PO = 2122.3 P = 1656.7

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3511 -.3887  
.407 -.0649 -.0646  
.548 -.0479 -.0382  
.690 -.0464 -.0541  
.831 .0362 .0275



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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C53)

ALPHA ( 2 ) = -.314 BETA ( 3 ) = 3.978 MACH = .60547 RN/L = 3.4696 PO = 2122.3 P = 1656.7

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4038	-.3458
.407	-.0942	-.0875
.548	-.0734	-.0887
.690	-.0717	-.0933
.831	-.1954	.2675

ALPHA ( 3 ) = 4.053 BETA ( 1 ) = .000 MACH = .60520 RN/L = 3.4659 PO = 2121.8 P = 1656.8

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3756	-.4171
.407	-.0910	-.0964
.548	-.0940	-.0839
.690	-.0882	-.0962
.831	.0334	.0365

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

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(RE4C54) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = 4.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.940 BETA ( 1 ) = -.044 MACH = .89610 RN/L = 4.1894 PO = 2105.5 P = 1250.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8008 -.7561  
.407 .0053 .0067  
.548 .0362 .0360  
.690 .0199 .0073  
.831 .1081 .0805

ALPHA ( 2 ) = -.284 BETA ( 1 ) = -4.059 MACH = .89087 RN/L = 4.1758 PO = 2102.0 P = 1255.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7189 -.8939  
.407 -.0539 -.0107  
.548 -.0639 -.0247  
.690 -.1568 -.0528  
.831 .2606 -.0532

ALPHA ( 2 ) = -.320 BETA ( 2 ) = -.041 MACH = .89087 RN/L = 4.1758 PO = 2102.0 P = 1255.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8228 -.7459  
.407 .0073 .0090  
.548 .0165 .0122  
.690 -.0341 -.0536  
.831 .1658 .1569

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C54)

ALPHA ( 2 ) = -.314 BETA ( 3 ) = 3.975 MACH = .89087 RN/L = 4.1758 PO = 2102.0 P = 1255.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.9093	-.6286
.407	-.0170	-.0586
.548	-.0312	-.0762
.690	-.0499	-.1873
.831	-.0158	.2802

ALPHA ( 3 ) = 3.980 BETA ( 1 ) = -.038 MACH = .89310 RN/L = 4.1769 PO = 2101.3 P = 1251.7

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7969	-.7023
.407	-.0773	-.0805
.548	-.0225	-.0270
.690	-.1138	-.1508
.831	.1115	.1053

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) ORB FUSE

(RE4C55) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
RREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.772 BETA ( 1 ) = -.066 MACH = 1.1026 RN/L = 4.3661 PO = 2116.2 P = 987.87

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4988 -.4342  
.407 -.1738 -.1720  
.548 -.0148 -.0031  
.690 .2071 .1932  
.831 .2539 .2497

ALPHA ( 2 ) = -.380 BETA ( 1 ) = -4.075 MACH = 1.1029 RN/L = 4.3716 PO = 2116.7 P = 987.69

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4023 -.5507  
.407 -.1872 -.1990  
.548 .0485 .1189  
.690 -.0449 .1559  
.831 .4273 .0860

ALPHA ( 2 ) = -.357 BETA ( 2 ) = -.059 MACH = 1.1029 RN/L = 4.3716 PO = 2116.7 P = 967.69

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5068 -.4452  
.407 -.1824 -.1795  
.548 .0553 .0558  
.690 .1575 .1066  
.831 .4408 .4231

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C55)

ALPHA ( 2 ) = - .367    BETA ( 3 ) = 3.956    MACH = 1.1029    RN/L = 4.3716    PO = 2116.7    P = 987.69

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI      120.0000240.0000

XO/LO

.260	-.6071	-.3521
.407	-.1811	-.1664
.548	.1046	.0683
.690	.1438	-.0888
.831	.1011	.4038

ALPHA ( 3 ) = 4.092    BETA ( 1 ) = -.059    MACH = 1.0957    RN/L = 4.3718    PO = 2114.7    P = 990.85

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI      120.0000240.0000

XO/LO

.260	-.5250	-.4710
.407	-.1686	-.1783
.548	.1687	.1641
.690	.0389	.0145
.831	.2819	.2496

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) ORB FUSE

(RE4C56) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = 4.000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.950 BETA ( 1 ) = -.063 MACH = 1.2534 RN/L = 4.3988 PO = 2111.9 P = 811.60

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3296 -.2791  
.407 -.1554 -.1698  
.548 -.0658 -.0604  
.690 .0235 .0178  
.831 .2009 .1739

ALPHA ( 2 ) = -.324 BETA ( 1 ) = -4.075 MACH = 1.2533 RN/L = 4.3973 PO = 2112.4 P = 811.89

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2620 -.3918  
.407 -.1706 -.3107  
.548 -.0941 -.0657  
.690 -.0944 .0007  
.831 .3276 .0212

ALPHA ( 2 ) = -.314 BETA ( 2 ) = -.063 MACH = 1.2533 RN/L = 4.3973 PO = 2112.4 P = 811.89

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3460 -.2986  
.407 -.1685 -.1852  
.548 -.0772 -.0761  
.690 .0139 .0042  
.831 .3446 .2840

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C56)

ALPHA ( 2 ) = -.343 BETA ( 3 ) = 3.953 MACH = 1.2533 RN/L = 4.3973 PO = 2112.4 P = 811.89

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4339	-.2153
.407	-.2724	-.1815
.548	-.0622	-.0915
.690	-.0033	-.0918
.831	.0322	.2607

ALPHA ( 3 ) = 3.967 BETA ( 1 ) = -.066 MACH = 1.2519 RN/L = 4.3949 PO = 2112.6 P = 813.49

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3764	-.3292
.407	-.1870	-.1935
.548	-.1042	-.1135
.690	-.0145	-.0201
.831	.2323	.1810

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C57) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-OB = 4.000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.953 BETA ( 1 ) = -.063 MACH = 1.4049 RN/L = 4.3087 PO = 2128.2 P = 664.20

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2173 -.1711  
.407 -.1841 -.1999  
.548 -.0641 -.0610  
.690 .0084 .0144  
.831 .1981 .1609

ALPHA ( 2 ) = -.317 BETA ( 1 ) = -4.075 MACH = 1.4057 RN/L = 4.3127 PO = 2132.4 P = 664.76

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.1492 -.2773  
.407 -.1978 -.2978  
.548 -.0637 -.0941  
.690 -.0655 -.0147  
.831 .2495 .0358

ALPHA ( 2 ) = -.320 BETA ( 2 ) = -.059 MACH = 1.4057 RN/L = 4.3127 PO = 2132.4 P = 664.76

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2424 -.1949  
.407 -.2100 -.2314  
.548 -.0644 -.0640  
.690 -.0001 -.0022  
.831 .2463 .2061



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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORR=OFF)

ORR FUSE

(RE4C57)

ALPHA ( 2 ) = -.522 BETA ( 3 ) = 3.956 MACH = 1.4057 RN/L = 4.3127 PO = 2132.4 P = 664.76

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3100	-.1104
.407	-.3016	-.1991
.548	-.0859	-.0599
.690	-.0240	-.0670
.831	.0607	.2538

ALPHA ( 3 ) = 4.208 BETA ( 1 ) = -.069 MACH = 1.4030 RN/L = 4.2923 PO = 2121.8 P = 663.96

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.2589	-.2106
.407	-.2749	-.2916
.548	-.0879	-.0921
.690	-.0369	-.0395
.831	.2263	.1921

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C58) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = 8.000 ELV-OB = 4.000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.953 BETA ( 1 ) = .000 MACH = .59380 RN/L = 3.3921 PO = 2104.8 P = 1658.2

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3415 -.3850  
.407 -.0660 -.0642  
.548 -.0550 -.0383  
.690 -.0516 -.0582  
.831 .0186 -.0219

ALPHA ( 2 ) = -.343 BETA ( 1 ) = -4.050 MACH = .59587 RN/L = 3.4000 PO = 2105.0 P = 1655.7

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3200 -.4599  
.407 -.0975 -.1047  
.548 -.1164 -.0714  
.690 -.1104 -.1073  
.831 .2448 -.2827

ALPHA ( 2 ) = -.380 BETA ( 2 ) = .000 MACH = .59587 RN/L = 3.4000 PO = 2105.0 P = 1655.7

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3607 -.4003  
.407 -.0760 -.0739  
.548 -.0708 -.0570  
.690 -.0680 -.0794  
.831 .0109 -.0043

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C58)

ALPHA ( 2 ) = -.386 BETA ( 3 ) = 3.978 MACH = .59587 RN/L = 3.4000 PO = 2105.0 P = 1655.7

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4266	-.3545
.407	-.1141	-.1037
.548	-.0917	-.1162
.690	-.1104	-.1184
.831	-.2395	.2495

ALPHA ( 3 ) = 3.993 BETA ( 1 ) = -.003 MACH = .59700 RN/L = 3.4043 PO = 2104.8 P = 1654.1

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3864	-.4282
.407	-.1090	-.1090
.548	-.1146	-.1001
.690	-.1084	-.1246
.831	.0048	.0065

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TAPULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORG FUSE

(RE4C59) ( 13 JAN 75

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = 4.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.983 BETA ( 1 ) = -.050 MACH = .89250 RN/L = 4.1747 PO = 2100.6 P = 1252.1

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8096 -.7600  
.407 -.0010 .0002  
.548 .0306 .0323  
.690 .0149 .0010  
.831 .0974 .0789

ALPHA ( 2 ) = -.370 BETA ( 1 ) = -4.059 MACH = .89213 RN/L = 4.1756 PO = 2100.4 P = 1253.5

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7208 -.8962  
.407 -.0555 -.0125  
.548 -.0656 -.0257  
.690 -.1598 -.0537  
.831 .2489 -.0562

ALPHA ( 2 ) = -.403 BETA ( 2 ) = -.044 MACH = .89213 RN/L = 4.1756 PO = 2100.4 P = 1252.5

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8152 -.7370  
.407 .0165 .0167  
.548 .0179 .0167  
.690 -.0288 -.0522  
.831 .1722 .1608

DATE 23 JUL 76

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORE FUSE

(RE4C59)

ALPHA ( 2 ) = -.409 BETA ( 3 ) = 3.972 MACH = .89213 RN/L = 4.1756 PO = 2100.4 P = 1252.5

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.8873	-.6394
.407	-.0210	-.0585
.548	-.0332	-.0731
.690	-.0508	-.1870
.831	-.0223	.2627

ALPHA ( 3 ) = 4.076 BETA ( 1 ) = -.041 MACH = .89250 RN/L = 4.1726 PO = 2099.9 P = 1251.7

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.8029	-.7090
.407	-.0872	-.0876
.548	-.0291	-.0338
.690	-.1283	-.1658
.831	.1024	.0953

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C60) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.937 BETA ( 1 ) = -.059 MACH = 1.1000 RN/L = 4.3718 PO = 2109.8 P = 988.18

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5011 -.4353  
.407 -.1730 -.1747  
.548 -.0050 .0156  
.690 .2032 .1939  
.831 .2582 .2479

ALPHA ( 2 ) = -.528 BETA ( 1 ) = -4.075 MACH = 1.0987 RN/L = 4.3759 PO = 2110.0 P = 989.81

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4056 -.5518  
.407 -.1573 -.1758  
.548 .0696 .1218  
.690 -.0473 .1550  
.831 .4213 .0788

ALPHA ( 2 ) = -.492 BETA ( 2 ) = -.063 MACH = 1.0987 RN/L = 4.3759 PO = 2110.0 P = 989.61

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5044 -.4429  
.407 -.1793 -.1751  
.548 .0917 .0765  
.690 .1637 .1158  
.831 .4356 .4275

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C60)

ALPHA ( 2 ) = -.532 BETA ( 3 ) = 3.956 MACH = 1.0987 RN/L = 4.3759 PO = 2110.0 P = 989.81

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.6130	-.3594
.407	-.1838	-.1709
.548	.0967	.0620
.690	.1426	-.0917
.831	.0921	.4004

ALPHA ( 3 ) = 4.013 BETA ( 1 ) = -.063 MACH = 1.1000 RN/L = 4.3823 PO = 2110.5 P = 988.47

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5265	-.4714
.407	-.1809	-.1747
.548	.1694	.1636
.690	.0425	.0182
.831	.2766	.2507

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORE FUSE

(RE4C61) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.960 BETA ( 1 ) = -.066 MACH = 1.2528 RN/L = 4.3924 PO = 2109.8 P = 811.49

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3297 -.2793  
.407 -.1551 -.1706  
.548 -.0613 -.0556  
.690 .0261 .0181  
.831 .1963 .1740

ALPHA ( 2 ) = -.505 BETA ( 1 ) = -4.075 MACH = 1.2524 RN/L = 4.3922 PO = 2110.3 P = 812.12

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2615 -.3924  
.407 -.1675 -.3078  
.548 -.0876 -.0648  
.690 -.0871 .0063  
.831 .3014 .0230

ALPHA ( 2 ) = -.459 BETA ( 2 ) = -.059 MACH = 1.2524 RN/L = 4.3922 PO = 2110.3 P = 812.12

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3465 -.2989  
.407 -.1674 -.1851  
.548 -.0739 -.0727  
.690 .0152 .0070  
.831 .3326 .2698



DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE (RE4C61)

ALPHA ( 2 ) = -.462 BETA ( 3 ) = 3.953 MACH = 1.2524 RN/L = 4.3922 PO = 2110.3 P = 812.12

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4313	-.2154
.407	-.2736	-.1810
.548	-.0627	-.0856
.690	-.0004	-.0865
.831	.0330	.2659

ALPHA ( 3 ) = 4.006 BETA ( 1 ) = -.063 MACH = 1.2481 RN/L = 4.3945 PO = 2110.5 P = 816.88

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3832	-.3354
.407	-.1934	-.2057
.548	-.1071	-.1145
.690	-.0192	-.0238
.831	.2111	.1670

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C62) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-OB = 4.000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.937 BETA ( 1 ) = -.069 MACH = 1.3993 RN/L = 4.2798 PO = 2114.0 P = 664.93

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2226 -.1759  
.407 -.1897 -.2038  
.548 -.0639 -.0636  
.690 .0073 .0097  
.831 .1876 .1561

ALPHA ( 2 ) = -.486 BETA ( 1 ) = -4.078 MACH = 1.3989 RN/L = 4.2779 PO = 2113.8 P = 665.32

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.1542 -.2808  
.407 -.1987 -.3023  
.548 -.0624 -.0921  
.690 -.0645 -.0149  
.831 .2514 .0378

ALPHA ( 2 ) = -.486 BETA ( 2 ) = -.063 MACH = 1.3989 RN/L = 4.2779 PO = 2113.8 P = 665.32

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2469 -.1962  
.407 -.2179 -.2357  
.548 -.0629 -.0646  
.690 -.0002 -.0054  
.831 .2422 .2099

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ARC11-0231A80 OTS(SRB=N ORB=N )

ORB FUSE

(RE4C62)

ALPHA ( 2 ) = -.499 BETA ( 3 ) = 3.953 MACH = 1.3989 RN/L = 4.2779 PO = 2113.8 P = 665.32

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

X0/L0

.260	-.3151	-.1140
.407	-.3047	-.1994
.548	-.0875	-.0602
.690	-.0254	-.0678
.831	.0573	.2532

ALPHA ( 3 ) = 4.020 BETA ( 1 ) = -.066 MACH = 1.3960 RN/L = 4.2780 PO = 2114.0 P = 668.11

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

X0/L0

.260	-.2643	-.2167
.407	-.2793	-.2945
.548	-.0910	-.0965
.690	-.0378	-.0379
.831	.2145	.1892

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N+ ORB=N ) ORE FUSE

(RE4C63) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000  
RN/L = 4.250 MACH = .980

ALPHA ( 1 ) = -3.868 BETA ( 1 ) = -.063 MACH = .98020 RN/L = 4.3081 PO = 2109.8 P = 1140.4

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7108 -.6280  
.407 .0160 .0123  
.548 .1385 .1429  
.690 .1010 .0861  
.831 .2263 .2279

ALPHA ( 2 ) = -.486 BETA ( 1 ) = -4.075 MACH = .97937 RN/L = 4.3059 PO = 2108.4 P = 1140.7

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5711 -.7723  
.407 -.0443 -.1266  
.548 .0137 .0886  
.690 -.1007 .0431  
.831 .3165 -.0353

ALPHA ( 2 ) = -.456 BETA ( 2 ) = -.063 MACH = .97937 RN/L = 4.3059 PO = 2108.4 P = 1140.7

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7013 -.6296  
.407 .0011 -.0072  
.548 .1210 .1227  
.690 .0483 .0213  
.831 .2827 .2777

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N+ ORB=N )

ORE FUSE

(RE4C63)

ALPHA ( 2 ) = -.439 BETA ( 3 ) = 3.953 MACH = .97937 RN/L = 4.3059 PO = 2108.4 P = 1140.7

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.8319	-.5019
.407	-.1065	-.0621
.548	.0833	.0127
.690	.0463	-.1680
.831	-.0059	.3310

ALPHA ( 3 ) = 4.013 BETA ( 1 ) = -.069 MACH = .98150 RN/L = 4.3090 PO = 2108.4 P = 1137.9

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7048	-.9513
.407	-.0706	-.0819
.548	.0720	.0716
.690	-.0619	-.1076
.831	.1684	.1619

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C64) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = -4.060  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.973 BETA ( 1 ) = -.047 MACH = .58500 RN/L = 3.4024 PO = 2096.3 P = 1662.8

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3136 -.3526  
.407 -.0377 -.0365  
.548 -.0032 .0004  
.690 -.0116 -.0141  
.831 .0574 .0276

ALPHA ( 2 ) = -.277 BETA ( 1 ) = -4.066 MACH = .58960 RN/L = 3.4202 PO = 2098.0 P = 1658.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3079 -.4504  
.407 -.0838 -.0926  
.548 -.0910 -.0574  
.690 -.0835 -.0792  
.831 .2721 -.2339

ALPHA ( 2 ) = -.291 BETA ( 2 ) = -.047 MACH = .58960 RN/L = 3.4202 PO = 2098.0 P = 1658.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3475 -.3645  
.407 -.0626 -.0623  
.548 -.0370 -.0356  
.690 -.0407 -.0459  
.831 .0411 .0341

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORE FUSE

(RE4C64)

ALPHA ( 2 ) = -.307 BETA ( 3 ) = 3.972 MACH = .58960 RN/L = 3.4202 PO = 2098.0 P = 1658.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4051	-.3381
.37	-.0979	-.0869
.548	-.0624	-.0894
.690	-.0759	-.0922
.831	-.1997	.2789

ALPHA ( 3 ) = 3.957 BETA ( 1 ) = -.044 MACH = .59060 RN/L = 3.4224 PO = 2098.5 P = 1657.3

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3706	-.4118
.407	-.0913	-.0913
.548	-.0780	-.0794
.690	-.0812	-.0868
.831	.0535	.0521

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DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C65) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = 4.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.977 BETA ( 1 ) = -.044 MACH = .89350 RN/L = 4.2056 PO = 2100.6 P = 1250.8

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8109 -.7497  
.407 .0019 .0041  
.548 .0317 .0369  
.690 .0198 .0084  
.831 .1074 .0819

ALPHA ( 2 ) = -.304 BETA ( 1 ) = -4.063 MACH = .89107 RN/L = 4.1787 PO = 2099.2 P = 1253.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7197 -.8951  
.407 -.0545 -.0131  
.548 -.0673 -.0228  
.690 -.1552 -.0353  
.831 .2633 -.0335

ALPHA ( 2 ) = -.304 BETA ( 2 ) = -.044 MACH = .89107 RN/L = 4.1787 PO = 2099.2 P = 1253.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8198 -.7427  
.407 .0101 .0113  
.548 .0159 .0159  
.690 -.0302 -.0483  
.831 .1734 .1594



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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

OFB FUSE

(RE4C65)

ALPHA ( 2 ) = -.317 BETA ( 3 ) = 3.972 MACH = .89107 RN/L = 4.1787 PO = 2099.2 P = 1253.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.8901	-.6320
.407	-.0151	-.0519
.548	-.0302	-.0724
.690	-.0440	-.1757
.831	-.0143	.2841

ALPHA ( 3 ) = 3.930 BETA ( 1 ) = -.041 MACH = .89120 RN/L = 4.1708 PO = 2098.5 P = 1252.6

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.8014	-.7140
.407	-.0779	-.0828
.548	-.0307	-.0320
.690	-.1181	-.1772
.831	.1054	.1113

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

OFB FUSE

(RE4C66) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = -4.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.963 BETA ( 1 ) = -.063 MACH = 1.0996 RN/L = 4.4015 PO = 2123.2 P = 994.87

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5022 -.4376  
.407 -.1775 -.1740  
.548 -.0129 -.0002  
.690 .2023 .1933  
.831 .2528 .2507

ALPHA ( 2 ) = -.337 BETA ( 1 ) = -4.072 MACH = 1.0995 RN/L = 4.4038 PO = 2123.7 P = 995.30

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4129 -.5648  
.407 -.1837 -.2001  
.548 .0625 .1169  
.690 -.0508 .1574  
.831 .4327 .0816

ALPHA ( 2 ) = -.334 BETA ( 2 ) = -.059 MACH = 1.0995 RN/L = 4.4038 PO = 212 P = 995.30

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5126 -.4531  
.407 -.1834 -.1792  
.548 .1425 .1523  
.690 .1615 .1073  
.831 .4359 .4044

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C66)

ALPHA ( 2 ) = -.376 BETA ( 3 ) = 3.950 MACH = 1.0995 RN/L = 4.4038 PO = 2123.7 P = 995.30

SECTION ( 11)ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.6062	-.3543
.407	-.1933	-.1784
.548	.0981	.0630
.690	.1414	-.0865
.831	.1028	.3965

ALPHA ( 3 ) = 3.953 BETA ( 1 ) = -.066 MACH = 1.1032 RN/L = 4.3993 PO = 2119.0 P = 988.53

SECTION ( 11)ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5421	-.4859
.407	-.1998	.1922
.548	.1778	.1741
.690	.0601	.0272
.831	.2968	.2641

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

OFB FUSE

(RE4C67) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-OB = -4.000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -.327 BETA ( 1 ) = -4.072 MACH = 1.2493 RN/L = 4.4272 PO = 2123.0 P = 820.40

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2665 -.3979  
.407 -.1774 -.3075  
.548 -.0962 -.0687  
.690 -.0895 -.0009  
.831 .3267 .0204

ALPHA ( 1 ) = -.317 BETA ( 2 ) = -.059 MACH = 1.2493 RN/L = 4.4272 PO = 2123.0 P = 820.40

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3521 -.3051  
.407 -.1699 -.1759  
.548 -.0755 -.0731  
.690 .0125 .0052  
.831 .3398 .2911

ALPHA ( 1 ) = -.340 BETA ( 3 ) = 3.950 MACH = 1.2493 RN/L = 4.4272 PO = 2123.0 P = 820.40

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4350 -.2179  
.407 -.2740 -.1816  
.548 -.0664 -.0954  
.690 -.0082 -.0933  
.831 .0319 .2595

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

OPB FUSE

(RE4067)

ALPHA ( 2 ) = .000 BETA ( 1 ) = -.063 MACH = 1.2510 RN/L = 4.4292 PO = 2123.9 P = 818.86

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3562	-.3087
.407	-.1732	-.1771
.548	-.0778	-.0771
.690	.0072	.0041
.831	.3551	.3176

ALPHA ( 3 ) = 3.960 BETA ( 1 ) = -.066 MACH = 1.2490 RN/L = 4.4220 PO = 2123.2 P = 820.75

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3810	-.3340
.407	-.1933	-.2003
.548	-.1085	-.1164
.690	-.0215	-.0201
.831	.2341	.1742

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C68) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = 8.000 ELV-OB = -4.000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.944 BETA ( 1 ) = -.059 MACH = 1.4046 RN/L = 4.3918 PO = 2123.2 P = 662.88

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.2175 -.1709  
.407 -.1837 -.1983  
.548 -.0631 -.0591  
.690 .0069 .0122  
.831 .1996 .1608

ALPHA ( 2 ) = -.320 BETA ( 1 ) = -4.072 MACH = 1.4079 RN/L = 4.3701 PO = 2122.5 P = 659.58

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.1481 -.2767  
.407 -.1964 -.2954  
.548 -.0613 -.0927  
.690 -.0643 -.0142  
.831 .2515 .0404

ALPHA ( 2 ) = -.320 BETA ( 2 ) = -.059 MACH = 1.4079 RN/L = 4.3701 PO = 2122.5 P = 659.58

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.2412 -.1970  
.407 -.2112 -.2295  
.548 -.0628 -.0611  
.690 -.0003 -.0021  
.831 .2455 .2061

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) ORB FUSE

(RE4C68)

ALPHA ( 2 ) = -.347 BETA ( 3 ) = 3.953 MACH = 1.4079 RN/L = 4.3701 PO = 2122.5 P = 659.58

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3067	-.1079
.407	-.2987	-.1956
.548	-.0855	-.0551
.690	-.0249	-.0634
.831	.0638	.2607

ALPHA ( 3 ) = 3.960 BETA ( 1 ) = -.063 MACH = 1.4068 RN/L = 4.3541 PO = 2121.8 P = 660.41

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.2546	-.2081
.407	-.2699	-.2851
.548	-.0818	-.0939
.690	-.0324	-.0362
.831	.2316	.2001

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C69) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = -4.000  
RN/L = 3.400 MACH = .690

ALPHA ( 1 ) = -3.920 BETA ( 1 ) = -.044 MACH = .59500 RN/L = 3.4551 PO = 2109.8 P = 1660.6

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3343 -.3734  
.407 -.0530 -.0520  
.548 -.0197 -.0169  
.690 -.0338 -.0366  
.831 .0232 .0020

ALPHA ( 2 ) = -.376 BETA ( 1 ) = -4.066 MACH = .59743 RN/L = 3.4632 PO = 2109.3 P = 1657.0

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3167 -.4568  
.407 -.0939 -.1022  
.548 -.0989 -.0643  
.690 -.1052 -.0976  
.831 .2477 -.2612

ALPHA ( 2 ) = -.373 BETA ( 2 ) = -.050 MACH = .59743 RN/L = 3.4632 PO = 2109.3 P = 1657.0

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3520 -.3971  
.407 -.0717 -.0724  
.548 -.0417 -.0455  
.690 -.0516 -.0652  
.831 .0209 .0100



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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE (RE4C69)

ALPHA ( 2 ) = -.426 BETA ( 3 ) = 3.969 MACH = .59743 RN/L = 3.4632 PO = 2109.3 P = 1657.0

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4094	-.3432
.407	-.1055	-.0928
.548	-.0750	-.1016
.690	-.0951	-.1106
.831	-.2186	.2588

ALPHA ( 3 ) = 3.947 BETA ( 1 ) = -.044 MACH = .59880 RN/L = 3.4697 PO = 2109.8 P = 1655.6

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3803	-.4235
.407	-.1010	-.1034
.548	-.0910	-.0889
.690	-.1015	-.1090
.831	.0253	.0273

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C70) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = -4.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.897 BETA ( 1 ) = -.041 MACH = .89150 RN/L = 4.1731 PO = 2102.0 P = 1254.3

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8166 -.7702  
.407 -.0025 -.0015  
.548 .0269 .0279  
.690 .0101 -.0001  
.831 .1000 .0736

ALPHA ( 2 ) = -.383 BETA ( 1 ) = -4.063 MACH = .89050 RN/L = 4.1731 PO = 2101.3 P = 1255.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7202 -.8972  
.407 -.0548 -.0122  
.548 -.0663 -.0231  
.690 -.1570 -.0545  
.831 .2472 -.0478

ALPHA ( 2 ) = -.357 BETA ( 2 ) = -.047 MACH = .89050 RN/L = 4.1731 PO = 2101.3 P = 1255.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8221 -.7460  
.407 .0090 .0092  
.548 .0124 .0154  
.690 -.0345 -.0541  
.831 .1647 .1535

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C70)

ALPHA ( 2 ) = -.370 BETA ( 3 ) = 3.972 MACH = .89050 RN/L = 4.1731 PO = 2101.3 P = 1255.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

X0/L0

.260	-.8399	-.6477
.407	-.0222	-.0637
.548	-.0414	-.0757
.690	-.0586	-.1960
.831	-.0208	.2678

ALPHA ( 3 ) = 4.020 BETA ( 1 ) = -.041 MACH = .89260 RN/L = 4.1823 PO = 2101.3 P = 1252.4

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

X0/L0

.260	-.7996	-.7200
.407	-.0822	-.0831
.548	-.0321	-.0328
.690	-.1247	-.1673
.831	.1038	.0881

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C71) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-OB = -4.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.963 BETA ( 1 ) = -.066 MACH = 1.0977 RN/L = 4.3743 PO = 2107.0 P = 989.57

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.5560 -.4841  
.407 -.1886 -.1865  
.548 .0194 .0289  
.690 .2405 .2192  
.831 .2849 .2754

ALPHA ( 2 ) = -.545 BETA ( 1 ) = -4.072 MACH = 1.1017 RN/L = 4.3738 PO = 2107.7 P = 985.11

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.5027 -.6897  
.407 -.2287 -.2524  
.548 .0780 .1447  
.690 -.0504 .1956  
.831 .5135 .0997

ALPHA ( 2 ) = -.667 BETA ( 2 ) = -.059 MACH = 1.1017 RN/L = 4.3738 PO = 2107.7 P = 985.11

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.6094 -.5387  
.407 -.2150 -.2113  
.548 .1009 .1138  
.690 .2011 .1387  
.831 .5171 .5124

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORR=N ) ORB FUSE

(RE4C71)

ALPHA ( 2 ) = -.519 BETA ( 3 ) = 3.953 MACH = 1.1017 RN/L = 4.3738 PO = 2107.7 P = 985.11

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7000	-.4115
.407	-.2251	-.1989
.548	.1191	.0793
.690	.1842	-.0906
.831	.1180	.4700

ALPHA ( 3 ) = 3.990 BETA ( 1 ) = -.066 MACH = 1.1080 RN/L = 4.3708 PO = 2107.0 P = 977.00

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.6677	-.5980
.407	-.2688	-.2755
.548	.1952	.1937
.690	.0853	.0441
.831	.3650	.3379

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C72) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-OB = -4.000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -4.003 BETA ( 1 ) = -.066 MACH = 1.253 RN/L = 4.4018 PO = 2110.5 P = 811.05

SECTION ( 110RB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3293 -.2794  
.407 -.1544 -.1654  
.548 -.0597 -.0565  
.690 .0250 .0223  
.831 .1959 .1723

ALPHA ( 2 ) = -.502 BETA ( 1 ) = -4.072 MACH = 1.2515 RN/L = 4.3996 PO = 2110.5 P = 813.16

SECTION ( 110RB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.2609 -.3920  
.407 -.1723 -.3111  
.548 -.0895 -.0640  
.690 -.0885 .0032  
.831 .3059 .0246

ALPHA ( 2 ) = -.528 BETA ( 2 ) = -.059 MACH = 1.2515 RN/L = 4.3996 PO = 2110.5 P = 813.16

SECTION ( 110RB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3456 -.2987  
.407 -.1697 -.1849  
.548 -.0725 -.0699  
.690 .0173 .0096  
.831 .3282 .2655

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C72)

ALPHA ( 2 ) = -.538 BETA ( 3 ) = 3.953 MACH = 1.2515 RN/L = 4.3996 PO = 2110.5 P = 813.16

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4375	-.2207
.407	-.2797	-.1849
.548	-.0673	-.0901
.690	-.0064	-.0896
.831	.0309	.2652

ALPHA ( 3 ) = 3.953 BETA ( 1 ) = -.063 MACH = 1.2505 RN/L = 4.4051 PO = 2110.5 P = 814.22

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3812	-.3338
.407	-.1922	-.2027
.548	-.1055	-.1119
.690	-.0186	-.0203
.831	.2221	.1718

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TABULATED SOURCE DATA - IABO

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ARC11-0231ABO OTS(SRB=N ORB=N ) ORB FUSE

(RE4C73) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = -4.000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -.522 BETA ( 1 ) = -4.072 MACH = 1.4084 RN/L = 4.3191 PO = 2112.8 P = 656.17

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.1477 -.2751  
.407 -.1940 -.2956  
.548 -.0582 -.0924  
.690 -.0571 -.0148  
.831 .2534 .0419

ALPHA ( 1 ) = -.502 BETA ( 2 ) = -.059 MACH = 1.4084 RN/L = 4.3191 PO = 2112.8 P = 656.17

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.2383 -.1966  
.407 -.2084 -.2172  
.548 -.0594 -.0591  
.690 .0022 .0003  
.831 .2393 .2096

ALPHA ( 1 ) = -.535 BETA ( 3 ) = 3.053 MACH = 1.4084 RN/L = 4.3191 PO = 2112.8 P = 656.17

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3071 -.1081  
.407 -.3005 -.1937  
.548 -.0845 -.0529  
.690 -.0228 -.0585  
.831 .0626 .2562



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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C73)

ALPHA ( 2 ) = .000 BETA ( 1 ) = -.063 MACH = 1.4118 RN/L = 4.3069 PO = 2111.9 P = 652.69

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.2423	-.1994
.407	-.2132	-.2335
.548	-.0618	-.0598
.690	.0027	-.0021
.831	.2704	.2119

ALPHA ( 3 ) = .020 BETA ( 1 ) = -.063 MACH = 1.4046 RN/L = 4.3270 PO = 2113.3 P = 659.80

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.2483	-.2023
.407	-.2180	-.2388
.548	-.0638	-.0649
.690	-.0018	-.0049
.831	.2672	.2257

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C74) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = .000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.950 BETA ( 1 ) = -.009 MACH = .60200 RN/L = 3.5046 PO = 2121.1 P = 1660.3

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3240 -.3649  
.407 -.0401 -.0401  
.548 -.0185 -.0066  
.690 -.0123 -.0197  
.831 .0544 .0228

ALPHA ( 2 ) = -.301 BETA ( 1 ) = -4.044 MACH = .60423 RN/L = 3.5076 PO = 2121.3 P = 1657.7

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3108 -.4539  
.407 -.0684 -.0982  
.548 -.1038 -.0614  
.690 -.0923 -.0862  
.831 .2683 -.2351

ALPHA ( 2 ) = -.287 BETA ( 2 ) = -.006 MACH = .60423 RN/L = 3.5076 PO = 2121.3 P = 1657.7

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3475 -.3896  
.407 -.0571 -.0594  
.548 -.0435 -.0332  
.690 -.0437 -.0487  
.831 .0449 .0322

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) ORB FUSE

(RE4074)

ALPHA ( 2 ) = -.317 BETA ( 3 ) = 3.988 MACH = .60423 RN/L = 3.5076 PO = 2121.3 P = 1657.7

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4038	-.3469
.407	-.0991	-.0931
.548	-.0747	-.0936
.690	-.0754	-.0956
.831	-.2020	.2739

ALPHA ( 3 ) = 3.947 BETA ( 1 ) = -.009 MACH = .60510 RN/L = 3.5081 PO = 2121.8 P = 1656.9

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3839	-.4212
.407	-.0965	-.0995
.548	-.0964	-.0856
.690	-.0926	-.0963
.831	.0387	.0414

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C75) ( 13 JAN 75 )

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.980 BETA ( 1 ) = -.012 MACH = .90260 RN/L = 4.2512 PO = 2122.5 P = 1251.5

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8423 -.7615  
.407 .0173 .0177  
.548 .0227 .0377  
.690 .0205 .0105  
.831 .1134 .0876

ALPHA ( 2 ) = -.324 BETA ( 1 ) = -4.047 MACH = .90460 RN/L = 4.2477 PO = 2121.6 P = 1248.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7038 -.8892  
.407 -.0439 .0044  
.548 -.0732 -.0143  
.690 -.1536 -.0442  
.831 .2704 -.0334

ALPHA ( 2 ) = -.317 BETA ( 2 ) = -.006 MACH = .90460 RN/L = 4.2477 PO = 2121.6 P = 1248.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7968 -.7219  
.407 .0325 .0316  
.548 .0097 .0242  
.690 -.0246 -.0420  
.831 .1889 .1717

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C75)

ALPHA ( 2 ) = -.396 BETA ( 3 ) = 3.984 MACH = .90460 RN/L = 4.2477 PO = 2121.6 P = 1248.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7589	-.6172
.407	-.0015	-.0405
.548	-.0295	-.0584
.690	-.0287	-.1785
.831	.0160	.2821

ALPHA ( 3 ) = 4.076 BETA ( 1 ) = -.012 MACH = .90480 RN/L = 4.2388 PO = 2121.1 P = 1247.6

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.8178	-.7493
.407	-.0121	-.0149
.548	-.0356	-.0248
.690	-.1213	-.1675
.831	.1338	.1297

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C76) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.934 BETA ( 1 ) = .009 MACH = 1.1011 RN/L = 4.4175 PO = 2123.9 P = 993.44

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4999 -.4346  
.407 -.1780 -.1824  
.548 -.0630 -.0540  
.690 .1770 .1593  
.831 .2490 .2416

ALPHA ( 2 ) = -.238 BETA ( 1 ) = -3.994 MACH = 1.1063 RN/L = 4.4170 PO = 2123.4 P = 986.84

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4058 -.5540  
.407 -.1833 -.1882  
.548 .0693 .1230  
.690 -.0476 .1586  
.831 .4229 .0929

ALPHA ( 2 ) = -.307 BETA ( 2 ) = .009 MACH = 1.1063 RN/L = 4.4170 PO = 2123.4 P = 986.84

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4971 -.4390  
.407 -.1782 -.1723  
.548 -.0187 -.0081  
.690 .1496 .1012  
.831 .4338 .4252

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C76)

ALPHA ( 2 ) = -.271 BETA ( 3 ) = 4.034 MACH = 1.1063 RN/L = 4.4170 PO = 2123.4 P = 986.84

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5978	-.3481
.407	-.2232	-.1876
.548	.0963	-.0488
.690	.1398	-.0620
.831	.1006	.4058

ALPHA ( 3 ) = 4.026 BETA ( 1 ) = .012 MACH = 1.1056 RN/L = 4.4135 PO = 2121.8 P = 986.83

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5192	-.4658
.407	-.2026	-.2063
.548	.1644	.1610
.690	.0632	.0353
.831	.2910	.2602

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C77) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-06 = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.881 BETA ( 1 ) = .012 MACH = 1.2507 RN/L = 4.4817 PO = 2123.2 P = 818.92

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3314 -.2803  
.407 -.1515 -.1651  
.548 -.0663 -.0601  
.690 .0232 .0156  
.831 .1980 .1749

ALPHA ( 2 ) = -.238 BETA ( 1 ) = -3.994 MACH = 1.2534 RN/L = 4.4652 PO = 2123.9 P = 816.27

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.2605 -.3894  
.407 -.1647 -.2921  
.548 -.0953 -.0675  
.690 -.0919 .0006  
.831 .3294 .0184

ALPHA ( 2 ) = -.258 BETA ( 2 ) = .009 MACH = 1.2534 RN/L = 4.4652 PO = 2123.9 P = 816.27

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3470 -.2992  
.407 -.1662 -.1767  
.548 -.0785 -.0720  
.690 .0142 .0031  
.831 .3366 .2782



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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C77)

ALPHA ( 2 ) = -.281 BETA ( 3 ) = 4.031 MACH = 1.2534 RN/L = 4.4652 PO = 2123.9 P = 816.27

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4311	-.2142
.407	-.2616	-.1787
.548	-.0644	-.0952
.690	-.0059	-.0925
.831	.0271	.2614

ALPHA ( 3 ) = 3.953 BETA ( 1 ) = .016 MACH = 1.2486 RN/L = 4.4578 PO = 2122.5 P = 820.98

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3797	-.3311
.407	-.1845	-.1902
.548	-.1058	-.1146
.690	-.0170	-.0189
.831	.2302	.1714

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C78) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = 8.000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.980 BETA ( 1 ) = -.066 MACH = 1.4100 RN/L = 4.3522 PO = 2122.5 P = 657.63

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2138 -.1660  
.407 -.1769 -.1929  
.548 -.0619 -.0579  
.690 .0109 .0140  
.831 .2068 .1662

ALPHA ( 2 ) = -.238 BETA ( 1 ) = -4.072 MACH = 1.4075 RN/L = 4.3434 PO = 2123.2 P = 660.25

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.1482 -.2749  
.407 -.1943 -.2949  
.548 -.0654 -.0903  
.690 -.0623 -.0126  
.831 .2491 .0386

ALPHA ( 2 ) = -.228 BETA ( 2 ) = -.157 MACH = 1.4075 RN/L = 4.3434 PO = 2123.2 P = 660.25

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2413 -.1942  
.407 -.2077 -.2287  
.548 -.0613 -.0619  
.690 .0036 -.0027  
.831 .2476 .2100

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C78)

ALPHA ( 2 ) = -.261 BETA ( 3 ) = 3.953 MACH = 1.4075 RN/L = 4.3434 PO = 2123.2 P = 660.25

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3065	-.1075
.407	-.2978	-.1979
.548	-.0874	-.0587
.690	-.0205	-.0644
.831	.0625	.2580

ALPHA ( 3 ) = 3.920 BETA ( 1 ) = -.066 MACH = 1.4043 RN/L = 4.3377 PO = 2123.2 P = 663.16

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.2555	-.2074
.407	-.2673	-.2837
.548	-.0859	-.0917
.690	-.0327	-.0349
.831	.2332	.1979

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C79) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = .000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -4.105 BETA ( 1 ) = -.006 MACH = .59090 RN/L = 3.4170 PO = 2104.1 P = 1661.4

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3338 -.3675  
.407 -.0503 -.0521  
.548 -.0371 -.0231  
.690 -.0320 -.0411  
.831 -.0268 -.0020

ALPHA ( 2 ) = -.383 BETA ( 1 ) = -4.047 MACH = .59743 RN/L = 3.4453 PO = 2104.1 P = 1653.0

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3164 -.4571  
.407 -.1009 -.1079  
.548 -.1144 -.0762  
.690 -.1087 -.1094  
.831 -.2519 -.2754

ALPHA ( 2 ) = -.380 BETA ( 2 ) = -.009 MACH = .59743 RN/L = 3.4453 PO = 2104.1 P = 1653.0

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3596 -.3981  
.407 -.0710 -.0706  
.548 -.0599 -.0502  
.690 -.0622 -.0725  
.831 -.0078 -.0019

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ARC11-0231A80 OTS(SRB=N ORB=N )

ORB FUSE

(RE4C79)

ALPHA ( 2 ) = - .499 BETA ( 3 ) = 3.981 MACH = .59743 RN/L = 3.4453 PO = 2104.1 P = 1653.0

SECTION ( 11ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4156	-.3493
.407	-.1039	-.0946
.548	-.0870	-.1012
.690	-.0903	-.1074
.831	-.2298	.2517

ALPHA ( 3 ) = 3.960 BETA ( 1 ) = -.012 MACH = .59700 RN/L = 3.4428 PO = 2104.1 P = 1653.6

SECTION ( 11ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3893	-.4308
.407	-.1110	-.1148
.548	-.1078	-.0974
.690	-.1110	-.1258
.831	.0153	.0126

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A90 OTS(SRB=N ORB=N ) ORB FUSEL

(RE4C80) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = 8.000 ELV-08 = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.897 BETA ( 1 ) = -.009 MACH = .89640 RN/L = 4.1815 PO = 2097.1 P = 1244.7

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8091 -.7674  
.407 .0053 .0042  
.548 .0138 .0334  
.690 .0120 -.0022  
.831 .0959 .0725

ALPHA ( 2 ) = -.353 BETA ( 1 ) = -4.050 MACH = .90047 RN/L = 4.1929 PO = 2097.3 P = 1239.4

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7085 -.8925  
.407 -.0469 .0001  
.548 -.0731 -.0195  
.690 -.1528 -.0482  
.831 .2640 -.0385

ALPHA ( 2 ) = -.353 BETA ( 2 ) = -.009 MACH = .90047 RN/L = 4.1929 PO = 2097.3 P = 1239.4

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8117 -.7353  
.407 .0199 .0191  
.548 .0231 .0164  
.690 -.0309 -.0504  
.831 .1769 .1573

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE (RE4C80)

ALPHA ( 2 ) = -.519 BETA ( 3 ) = 3.981 MACH = .90047 RN/L = 4.1929 PO = 2097.3 P = 1239.4

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7770	-.6248
.407	.0019	-.0421
.548	-.0324	-.0591
.690	-.0310	-.1744
.831	.0073	.2788

ALPHA ( 3 ) = 3.980 BETA ( 1 ) = -.012 MACH = .89790 RN/L = 4.1840 PO = 2097.8 P = 1243.1

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7914	-.7024
.407	-.0858	-.0935
.548	-.0423	-.0309
.690	-.1225	-.1676
.831	.1061	.0969

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORL FUSE

(RE4CB1) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.937 BETA ( 1 ) = .012 MACH = 1.0996 RN/L = 4.3760 PO = 2105.5 P = 986.57

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5022 -.4379  
.407 -.1724 -.1743  
.548 -.0045 .0159  
.690 .2066 .1950  
.831 .2532 .2454

ALPHA ( 2 ) = -.396 BETA ( 1 ) = -3.994 MACH = 1.1021 RN/L = 4.3810 PO = 2106.0 P = 983.89

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4064 -.5539  
.407 -.1850 -.1921  
.548 .0708 .1242  
.690 -.0409 .1587  
.831 .4211 .0780

ALPHA ( 2 ) = -.380 BETA ( 2 ) = .009 MACH = 1.1021 RN/L = 4.3810 PO = 2106.0 P = 983.89

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4976 -.4407  
.407 -.1760 -.1727  
.548 .0532 .0705  
.690 .1703 .1208  
.831 .4316 .4284



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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE (RE4C81)

ALPHA ( 2 ) = - .393 BETA ( 3 ) = 4.031 MACH = 1.1021 RN/L = 4.3810 PO = 2106.0 P = 983.89

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.6113	-.3582
.407	-.1896	-.1706
.548	.1031	.0678
.690	.1488	-.0837
.831	.0983	.4056

ALPHA ( 3 ) = 3.894 BETA ( 1 ) = .012 MACH = 1.1031 RN/L = 4.3843 PO = 2106.2 P = 982.65

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5244	-.4711
.407	-.1956	-.2073
.548	.1642	.1601
.690	.0591	.0319
.831	.2861	.2550

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C82) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.967 BETA ( 1 ) = .016 MACH = 1.2439 RN/L = 4.4220 PO = 2109.1 P = 820.87  
SECTION ( 1 ) ORB. FUSEL. RADIAL  
DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3398 -.2866  
.407 -.1581 -.1683  
.548 -.0634 -.0617  
.690 .0229 .0190  
.831 .1917 .1766

ALPHA ( 2 ) = -.396 BETA ( 1 ) = -3.994 MACH = 1.2511 RN/L = 4.4175 PO = 2109.6 P = 813.25  
SECTION ( 1 ) ORB. FUSEL. RADIAL  
DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.2598 -.3890  
.407 -.1658 -.3012  
.548 -.0899 -.0636  
.690 -.0875 .0028  
.831 .3114 .0242

ALPHA ( 2 ) = -.396 BETA ( 2 ) = .009 MACH = 1.2511 RN/L = 4.4175 PO = 2109.6 P = 813.25  
SECTION ( 1 ) ORB. FUSEL. RADIAL  
DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3467 -.3007  
.407 -.1674 -.1818  
.548 -.0734 -.0684  
.690 .0169 .0052  
.831 .3357 .2763

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ARC11-0231A80 OTS(SRB=N ORB=N )

ORB FUSE

(RE4C82)

ALPHA ( 2 ) = -.380 BETA ( 3 ) = 4.031 MACH = 1.2511 RN/L = 4.4175 PO = 2109.6 P = 813.25

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4354	-.2186
.407	-.2625	-.1823
.548	-.0644	-.0870
.690	-.0017	-.0853
.831	.0267	.2684

ALPHA ( 3 ) = 3.877 BETA ( 1 ) = .009 MACH = 1.2502 RN/L = 4.4099 PO = 2109.1 P = 813.99

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3737	-.3300
.407	-.1897	-.1953
.548	-.1095	-.1117
.690	-.0177	-.0191
.831	.2155	.1767

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C83) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = 8.000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.983 BETA ( 1 ) = -.066 MACH = 1.4086 RN/L = 4.3187 PO = 2118.3 P = 657.67

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2155 -.1694  
.407 -.1796 -.1955  
.548 -.0608 -.0578  
.690 .0141 .0169  
.831 .2008 .1644

ALPHA ( 2 ) = -.380 BETA ( 1 ) = -.4059 MACH = 1.4054 RN/L = 4.3138 PO = 2117.4 P = 660.32

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.1491 -.2761  
.407 -.1942 -.2962  
.548 -.0624 -.0919  
.690 -.0605 -.0146  
.831 .2512 .0395

ALPHA ( 2 ) = -.380 BETA ( 2 ) = -.059 MACH = 1.4054 RN/L = 4.3138 PO = 2117.4 P = 660.32

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2436 -.1962  
.407 -.2110 -.2314  
.548 -.0606 -.0623  
.690 .0016 -.0010  
.831 .2424 .2090

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N )

ORB FUSE

(RE4C83)

ALPHA ( 2 ) = -.409 BETA ( 3 ) = 3.953 MACH = 1.4054 RN/L = 4.3138 PO = 2117.4 P = 660.32

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3077	-.1091
.407	-.3005	-.1943
.548	-.0859	-.0551
.690	-.0186	-.0610
.831	.0636	.2615

ALPHA ( 3 ) = 3.828 BETA ( 1 ) = .000 MACH = 1.4102 RN/L = 4.2670 PO = 2116.9 P = 655.67

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.2504	-.2066
.407	-.2620	-.2777
.548	-.0833	-.0896
.690	-.0281	-.0256
.831	.2329	.2048

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4CB4) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-IB = 8.000 ELV-CB = 2.000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.953 BETA ( 1 ) = -.044 MACH = .59570 RN/L = 3.4174 PO = 2114.7 P = 1663.5

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3426 -.3754  
.407 -.0688 -.0571  
.548 -.0351 -.0258  
.690 -.0389 -.0489  
.831 .0293 .0055

ALPHA ( 2 ) = -.284 BETA ( 1 ) = -4.063 MACH = .59877 RN/L = 3.4302 PO = 2114.0 P = 1659.0

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3085 -.4477  
.407 -.0882 -.0954  
.548 -.0916 -.0627  
.690 -.0930 -.0308  
.831 .2617 -.2242

ALPHA ( 2 ) = -.291 BETA ( 2 ) = -.047 MACH = .59877 RN/L = 3.4302 PO = 2114.0 P = 1659.0

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3445 -.3940  
.407 -.0539 -.0570  
.548 -.0255 -.0242  
.690 -.0335 -.0430  
.831 .0348 .0331

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4CB4)

ALPHA ( 2 ) = -.320 BETA ( 3 ) = 3.969 MACH = .59877 RN/L = 3.4302 PO = 2114.0 P = 1659.0

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4126	-.3464
.407	-.1054	-.0982
.548	-.0716	-.1061
.690	-.0881	-.1042
.831	-.2083	.2675

ALPHA ( 3 ) = 3.973 BETA ( 1 ) = -.044 MACH = .59840 RN/L = 3.4294 PO = 2112.6 P = 1658.4

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3760	-.4146
.407	-.0956	-.0966
.548	-.0816	-.0813
.690	-.0881	-.0936
.831	.0379	.0358

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C85) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = 2.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.937 BETA ( 1 ) = -.050 MACH = .90250 RN/L = 4.2680 PO = 2118.3 P = 1249.1

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.8261 -.7597  
.407 .0142 .0160  
.548 .0368 .0420  
.690 .0211 .0101  
.831 .1127 .0866

ALPHA ( 2 ) = -.301 BETA ( 1 ) = -4.066 MACH = .89937 RN/L = 4.2393 PO = 2116.4 P = 1252.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.7076 -.8968  
.407 -.0442 .0057  
.548 -.0590 -.0150  
.690 -.1482 -.0417  
.831 .2579 -.0328

ALPHA ( 2 ) = -.304 BETA ( 2 ) = -.047 MACH = .89937 RN/L = 4.2393 PO = 2116.4 P = 1252.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.8048 -.7287  
.407 .0289 .0289  
.548 .0143 .0167  
.690 -.0348 -.0551  
.831 .1812 .1549



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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4085)

ALPHA ( 2 ) = -.320 BETA ( 3 ) = 3.969 MACH = .89937 RN/L = 4.2393 PO = 2115.4 P = 1252.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7754	-.6324
.407	-.0061	-.0483
.548	-.0279	-.0635
.690	-.0387	-.1836
.831	-.0003	.2739

ALPHA ( 3 ) = 3.977 BETA ( 1 ) = -.044 MACH = .89910 RN/L = 4.2250 PO = 2114.7 P = 1251.5

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7905	-.7057
.407	-.0773	-.0822
.548	-.0251	-.0221
.690	-.1151	-.1575
.831	.1071	.0972

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) ORB FUSE

(RE4C86) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-IB = 8.000 ELV-OB = 2.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -4.013 BETA ( 1 ) = .016 MACH = 1.1058 RN/L = 4.4715 PO = 2118.3 P = 985.01

SECTION ( 110RB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4919 -.4273  
.407 -.1768 -.1759  
.548 -.0582 -.0506  
.690 .1885 .1741  
.831 .2552 .2454

ALPHA ( 2 ) = -.304 BETA ( 1 ) = -3.991 MACH = 1.1047 RN/L = 4.4560 PO = 2115.9 P = 985.23

SECTION ( 110RB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4051 -.5539  
.407 -.1953 -.2265  
.548 .0144 .1121  
.690 -.0476 .1490  
.831 .4226 .0752

ALPHA ( 2 ) = -.267 BETA ( 2 ) = .009 MACH = 1.1047 RN/L = 4.4560 PO = 2115.9 P = 985.23

SECTION ( 110PB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5046 -.4451  
.407 -.1787 -.1721  
.548 .1459 .1473  
.690 .1619 .1148  
.831 .4393 .4198

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C86)

ALPHA ( 2 ) = -.327 BETA ( 3 ) = 4.034 MACH = 1.1047 RN/L = 4.4560 PO = 2115.9 P = 985.23

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5957	-.3469
.407	-.2213	-.1869
.548	.0990	-.0282
.690	.1360	-.0676
.831	.1016	.3956

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = .016 MACH = 1.1038 RN/L = 4.4466 PO = 2116.2 P = 986.43

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5215	-.4691
.407	-.1944	-.1873
.548	.1688	.1623
.690	.0512	.0264
.831	.2855	.2529

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C87) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SPEF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = 8.000 ELV-08 = 2.000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.871 BETA ( 1 ) = -.044 MACH = .59840 RN/L = 3.4324 PO = 2111.9 P = 1657.8

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3317 -.3743  
.407 -.0541 -.0524  
.548 -.0210 -.0231  
.690 -.0400 -.0431  
.831 -.0247 -.0083

ALPHA ( 2 ) = -.350 BETA ( 1 ) = -4.066 MACH = .59830 RN/L = 3.4341 PO = 2111.9 P = 1657.9

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3130 -.4594  
.407 -.0919 -.1012  
.548 -.0967 -.0660  
.690 -.1134 -.1041  
.831 -.2469 -.2560

ALPHA ( 2 ) = -.380 BETA ( 2 ) = -.050 MACH = .59830 RN/L = 3.4341 PO = 2111.9 P = 1657.9

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3593 -.4024  
.407 -.0724 -.0687  
.548 -.0426 -.0423  
.690 -.0604 -.0734  
.831 -.0099 -.0068

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C67)

ALPHA ( 2 ) = -.423 BETA ( 3 ) = 3.969 MACH = .59830 RN/L = 3.4341 PO = 2111.9 P = 1657.9

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4066	-.3472
.407	-.1066	-.0912
.548	-.0711	-.0925
.690	-.0955	-.1115
.831	-.2313	.2563

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = -.047 MACH = .59740 RN/L = 3.4327 PO = 2111.2 P = 1658.5

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3857	-.4240
.407	-.1000	-.1055
.548	-.0956	-.0918
.690	-.1087	-.1187
.831	.0162	.0166

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C88) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 2.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.963 BETA ( 1 ) = -.044 MACH = .89500 RN/L = 4.1900 PO = 2107.0 P = 1252.5

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8015 -.7680  
.407 .0020 .0028  
.548 .0292 .0332  
.690 .0132 .0023  
.831 .0977 .0747

ALPHA ( 2 ) = -.383 BETA ( 1 ) = -4.066 MACH = .89813 RN/L = 4.1944 PO = 2106.2 P = 1247.9

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7148 -.8957  
.407 -.0500 -.0046  
.548 -.0632 -.0183  
.690 -.1550 -.0510  
.831 .2452 -.0512

ALPHA ( 2 ) = -.376 BETA ( 2 ) = -.047 MACH = .89813 RN/L = 4.1944 PO = 2106.2 P = 1247.9

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8080 -.7264  
.407 .0225 .0235  
.548 .0216 .0252  
.690 -.0251 -.0491  
.831 .1721 .1661

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE (RE4068)

ALPHA ( 2 ) = -.409 BETA ( 3 ) = 3.969 MACH = .89813 RN/L = 4.1944 PO = 2106.2 P = 1247.9

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7890	-.6235
.407	.0012	-.0435
.548	-.0192	-.0557
.690	-.0352	-.1809
.831	.0001	.2746

ALPHA ( 3 ) = 3.940 BETA ( 1 ) = -.044 MACH = .89700 RN/L = 4.1933 PO = 2107.0 P = 1249.8

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7928	-.7075
.407	-.0890	-.0903
.548	-.0322	-.0291
.690	-.1254	-.1674
.831	.1062	.1003

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C89) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-09 = 2.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.970 BETA ( 1 ) = .016 MACH = 1.1009 RN/L = 4.4134 PO = 2105.5 P = 985.03

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4993 -.4338  
.407 -.1699 -.1728  
.548 -.0093 -.0018  
.690 .2054 .1950  
.831 .2547 .2463

ALPHA ( 2 ) = -.435 BETA ( 1 ) = -3.994 MACH = 1.1059 RN/L = 4.4313 PO = 2113.1 P = 982.43

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4021 -.5492  
.407 -.1747 -.1888  
.548 .0707 .1248  
.690 -.0428 .1595  
.831 .4139 .0790

ALPHA ( 2 ) = -.429 BETA ( 2 ) = .009 MACH = 1.1059 RN/L = 4.4313 PO = 2113.1 P = 982.43

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4050 -.4374  
.407 -.1732 -.1700  
.548 .0375 .0270  
.690 .1672 .1200  
.831 .4335 .4266



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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C83)

ALPHA ( 2 ) = -.466 BETA ( 3 ) = 4.031 MACH = 1.1059 RN/L = 4.4313 PO \* 2113.1 P = 982.43

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XG/LO

.260	-.6026	-.3532
.407	-.2123	-.1777
.548	.1032	.0641
.690	.1410	-.0724
.831	.1065	.4017

ALPHA ( 3 ) = 3.851 BETA ( 1 ) = .012 MACH = 1.1043 RN/L = 4.4260 PO = 2112.6 P = 984.21

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XG/LO

.260	-.5221	-.4684
.407	-.1922	-.1735
.548	.1730	.1698
.690	.0540	.0255
.831	.2847	.2570

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C90) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = 4.000 ELV-08 = 4.000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.960 BETA ( 1 ) = -.003 MACH = .59840 RN/L = 3.4955 PO = 2121.1 P = 1665.1

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3279 -.3703  
.407 -.0452 -.0438  
.548 -.0118 -.0090  
.690 -.0148 -.0178  
.831 .0536 .0204

ALPHA ( 2 ) = -.267 BETA ( 1 ) = -4.003 MACH = .59907 RN/L = 3.4936 PO = 2121.1 P = 1664.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3103 -.4489  
.407 -.0878 -.0980  
.548 -.0916 -.0600  
.690 -.0951 -.0852  
.831 .2769 -.2176

ALPHA ( 2 ) = -.291 BETA ( 2 ) = .012 MACH = .59907 RN/L = 3.4936 PO = 2121.1 P = 1664.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3507 -.3891  
.407 -.0589 -.0619  
.548 -.0302 -.0329  
.690 -.0377 -.0398  
.831 .0365 .0382

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ARC11-0231A80 0'S(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C90)

ALPHA ( 2 ) = -.294 BETA ( 3 ) = 4.028 MACH = .59907 RN/L = 3.4936 PO = 2121.1 P = 1664.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4125	-.3446
.407	-.1007	-.0929
.548	-.0654	-.0925
.690	-.0770	-.0896
.831	-.2038	.2786

ALPHA ( 3 ) = 3.973 BETA ( 1 ) = .006 MACH = .59650 RN/L = 3.4896 PO = 2121.1 P = 1664.8

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3764	-.4177
.407	-.0956	-.1003
.548	-.0828	-.0828
.690	-.0906	-.0926
.831	.0361	.0439

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C91) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = 4.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.980 BETA ( 1 ) = -.003 MACH = .90430 RN/L = 4.2125 PO = 2104.8 P = 1238.7

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8242 -.7582  
.407 .0184 .0180  
.548 .0376 .0421  
.690 .0220 .0100  
.831 .1116 .0817

ALPHA ( 2 ) = -.267 BETA ( 1 ) = -4.003 MACH = .90037 RN/L = 4.1975 PO = 2104.1 P = 1243.6

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.6996 -.8800  
.407 -.0391 .0132  
.548 -.0579 -.0110  
.690 -.1503 -.0411  
.831 .2612 -.0276

ALPHA ( 2 ) = -.291 BETA ( 2 ) = .012 MACH = .90037 RN/L = 4.1975 PO = 2104.1 P = 1243.6

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8173 -.7393  
.407 .0180 .0164  
.548 .0100 .0104  
.690 -.0436 -.0612  
.831 .1698 .1575

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C91)

ALPHA ( 2 ) = -.284 BETA ( 3 ) = 4.028 MACH = .90037 RN/L = 4.1975 PO = 2104.1 P = 1243.6

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

X0/L0

.260	-.7608	-.6189
.407	.0025	-.0441
.548	-.0188	-.0595
.690	-.0332	-.1819
.831	.0096	.2809

ALPHA ( 3 ) = 3.970 BETA ( 1 ) = -.003 MACH = .90050 RN/L = 4.1955 PO = 2102.7 P = 1242.6

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

X0/L0

.260	-.7848	-.7013
.407	-.0796	-.0824
.548	-.0239	-.0210
.690	-.1194	-.1575
.831	.1151	.1074

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) ORB FUSE

(RE4C92) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = 4.000 ELV-08 = 4.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.957 BETA ( 1 ) = .003 MACH = 1.0978 RN/L = 4.3356 PO = 2110.5 P = 991.11

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5049 -.4395  
.407 -.1751 -.1774  
.548 -.0094 -.0098  
.690 .2079 .1987  
.831 .2540 .2504

ALPHA ( 2 ) = -.284 BETA ( 1 ) = -3.994 MACH = 1.0997 RN/L = 4.3377 PO = 2110.5 P = 988.87

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4101 -.5532  
.407 -.1765 -.1854  
.548 .0697 .1213  
.690 -.0528 .1534  
.831 .4180 .0763

ALPHA ( 2 ) = -.281 BETA ( 2 ) = .000 MACH = 1.0997 RN/L = 4.3377 PO = 2110.5 P = 988.87

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5064 -.4457  
.407 -.1933 -.1816  
.548 .0347 .0662  
.690 .1592 .1125  
.831 .4424 .4287

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ARC11-0231A80 CTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4092)

ALPHA ( 2 ) = -.320 BETA ( 3 ) = 4.028 MACH = 1.0997 RN/L = 4.3377 PO = 2110.5 P = 988.87

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

X0/L0

.260	-.6074	-.3541
.407	-.1820	-.1716
.548	.1052	.0702
.690	.1443	-.0851
.831	.1025	.3961

ALPHA ( 3 ) = 3.977 BETA ( 1 ) = .003 MACH = 1.0998 RN/L = 4.3390 PO = 2109.8 P = 988.41

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

X0/L0

.260	-.5237	-.4694
.407	-.1692	-.1787
.548	.1663	.1685
.690	.0479	.0214
.831	.2821	.2537

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C93) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 4.000 ELV-09 = 4.000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.953 BETA ( 1 ) = .006 MACH = 1.2528 RN/L = 4.3463 PO = 2110.5 P = 811.76

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3284 -.2758  
.407 -.1540 -.1704  
.548 -.0742 -.0599  
.690 .0255 .0163  
.831 .1997 .1728

ALPHA ( 2 ) = -.238 BETA

MACH = 1.2535

RN/L = 4.3462 PO = 2111.4 P = 811.30

SECTION ( 1 ) ORB. FUSEL. RADIAL

VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2625 -.3907  
.407 -.1704 -.3061  
.548 -.0997 -.0672  
.690 -.0993 -.0006  
.831 .3188 .0201

ALPHA ( 2 ) = -.231 BETA ( 2 ) =

.000 MACH = 1.2535

RN/L = 4.3462 PO = 2111.4 P = 811.30

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3471 -.2985  
.407 -.1688 -.1858  
.548 -.0852 -.0769  
.690 .0108 .0023  
.831 .3438 .2764



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ARC11-0231A80 OTS(SRB-OFF ORB-OFF)

ORB FUSE

(RE4C93)

ALPHA ( 2 ) = -.284 BETA ( 3 ) = 4.034 MACH = 1.2535 RN/L = 4.3462 PO = 2111.4 P = 811.30

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4345	-.2172
.407	-.2687	-.1828
.548	-.0671	-.0866
.690	-.0044	-.0910
.831	.0320	.2603

ALPHA ( 3 ) = 3.977 BETA ( 1 ) = .000 MACH = 1.2524 RN/L = 4.3409 PO = 2110.5 P = 812.19

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3778	-.3292
.407	-.1882	-.1987
.548	-.1137	-.1130
.690	-.0178	-.0181
.831	.2310	.1838

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4C94) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 4.000 ELV-OB = 4.000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.887 BETA ( 1 ) = .016 MACH = 1.4070 RN/L = 4.3762 PO = 2135.2 P = 664.38

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2158 -.1654  
.407 -.1771 -.1925  
.548 -.0577 -.0570  
.690 .0099 .0152  
.831 .2029 .1657

ALPHA ( 2 ) = -.271 BETA ( 1 ) = -3.991 MACH = 1.4086 RN/L = 4.3552 PO = 2132.6 P = 662.12

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.1468 -.2717  
.407 -.1909 -.2890  
.548 -.0613 -.0889  
.690 -.0616 -.0104  
.831 .2563 .0405

ALPHA ( 2 ) = -.251 BETA ( 2 ) = .009 MACH = 1.4086 RN/L = 4.3552 PO = 2132.6 P = 662.12

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2429 -.1991  
.407 -.2061 -.2226  
.548 -.0563 -.0589  
.690 .0077 .0055  
.831 .2538 .2104

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4094)

ALPHA ( 2 ) = -.284 BETA ( 3 ) = 4.031 MACH = 1.4096 RN/L = 4.3552 PO = 2132.6 P = 662.12

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3036	-.1026
.407	-.2926	-.1909
.548	-.0838	-.0538
.690	-.0181	-.0593
.831	.0610	.2613

ALPHA ( 3 ) = 3.973 BETA ( 1 ) = .006 MACH = 1.3982 RN/L = 4.3323 PO = 2123.9 P = 669.12

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.2593	-.2110
.407	-.2653	-.2825
.548	-.0683	-.0921
.690	-.0346	-.0358
.831	.2200	.1893

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ARC11-0231A80 OTS(SRR=N ORB=N ) ORB FUSE

(RE4C95) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = 4.000 FLV-09 = 4.000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.960 BETA ( 1 ) = .006 MACH = .58310 RN/L = 3.4103 PO = 2111.9 P = 1677.5

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3393 -.3774  
.407 -.0660 -.0660  
.548 -.0368 -.0335  
.690 -.0510 -.0592  
.831 -.0149 -.0076

ALPHA ( 2 ) = -.297 BETA ( 1 ) = -4.003 MACH = .59743 RN/L = 3.4671 PO = 2111.9 P = 1659.1

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3160 -.4516  
.407 -.0966 -.1048  
.548 -.1040 -.0724  
.690 -.1181 -.1092  
.831 -.2513 -.2423

ALPHA ( 2 ) = -.307 BETA ( 2 ) = .012 MACH = .59743 RN/L = 3.4671 PO = 2111.9 P = 1659.1

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3463 -.3908  
.407 -.0566 -.0590  
.548 -.0307 -.0304  
.690 -.0497 -.0566  
.831 -.0211 -.0077

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C95)

ALPHA ( 2 ) = -.376 BETA ( 3 ) = 4.022 MACH = .59743 RN/L = 3.4671 PO = 2111.9 P = 1659.1

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4142	-.3431
.407	-.1158	-.0992
.548	-.0825	-.1092
.690	-.1102	-.1185
.831	-.2348	.2659

ALPHA ( 3 ) = 4.020 BETA ( 1 ) = -.003 MACH = .60100 RN/L = 3.4818 PO = 2111.9 P = 1654.5

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3771	-.4227
.407	-.0981	-.1022
.548	-.0838	-.0824
.690	-.1031	-.10
.831	.0206	.02

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C96) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 4.000 ELV-CB = 4.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.891 BETA ( 1 ) = -.003 MACH = .90360 RN/L = 4.2068 PO = 2106.2 P = 1240.4

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8209 -.7521  
.407 .0200 .0208  
.548 .0387 .0425  
.690 .0167 .0073  
.831 .1081 .0853

ALPHA ( 2 ) = -.390 BETA ( 1 ) = -4.003 MACH = .89957 RN/L = 4.1951 PO = 2105.5 P = 1245.5

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7112 -.8919  
.407 -.0468 .0054  
.548 -.0638 -.0171  
.690 -.1601 -.0508  
.831 .2535 -.0376

ALPHA ( 2 ) = -.360 BETA ( 2 ) = .012 MACH = .89957 RN/L = 4.1991 PO = 2105.5 P = 1245.5

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8113 -.7347  
.407 .0220 .0200  
.548 .0154 .0160  
.690 -.0376 -.0577  
.831 .1697 .1619

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ARC11-0231A80 OTS(SRB=N ORB=N )

ORB FUSE

(RE4C96)

ALPHA ( 2 ) = .406 BETA ( 3 ) = 4.031 MACH = .89957 RN/L = 4.1991 PO = 2105.5 P = 1245.5

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7608	-.6191
.407	.0001	-.0434
.548	-.0173	-.0522
.690	-.0304	-.1759
.831	-.0007	.2740

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = -.003 MACH = .90050 RN/L = 4.1971 PO = 2105.5 P = 1244.3

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7811	-.6955
.407	-.0815	-.0797
.548	-.0270	-.0237
.690	-.1274	-.1684
.831	.1089	.0984

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4C97) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 4.000 ELV-0B = 4.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.963 BETA ( 1 ) = .003 MACH = 1.0995 RN/L = 4.3360 PO = 2105.5 P = 986.72

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5016 -.4366  
.407 -.1709 -.1743  
.548 -.0071 -.0059  
.690 .2103 .1936  
.831 .2548 .2505

ALPHA ( 2 ) = -.409 BETA ( 1 ) = -3.997 MACH = 1.0997 RN/L = 4.3375 PO = 2105.5 P = 986.54

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4059 -.5519  
.407 -.1638 -.1717  
.548 .0712 .1285  
.690 -.0492 .1551  
.831 .4154 .0792

ALPHA ( 2 ) = -.386 BETA ( 2 ) = -.003 MACH = 1.0997 RN/L = 4.3375 PO = 2105.5 P = 986.54

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5020 -.4436  
.407 -.1780 -.1736  
.548 .0733 .1161  
.690 .1723 .1225  
.831 .4401 .4330



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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FLSE

(RE4C97)

ALPHA ( 2 ) = -.429 BETA ( 3 ) = 4.028 MACH = 1.0997 RN/L = 4.3375 PO = 2105.5 P = 986.54

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.6051	-.3537
.407	-.1716	-.1533
.548	.1070	.0693
.690	.1521	-.0853
.831	.0978	.4024

ALPHA ( 3 ) = 4.033 BETA ( 1 ) = -.003 MACH = 1.0997 RN/L = 4.3440 PO = 2106.2 P = 986.87

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5242	-.4710
.407	-.1507	-.1662
.548	.1656	.1685
.690	.0433	.0175
.831	.2781	.2497

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FLSE

(RE4C98) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRF = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = 4.000 ELV-08 = 4.000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.973 BETA ( 1 ) = .003 MACH = 1.2526 RN/L = 4.3420 PO = 2108.4 P = 811.19

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3306 -.2788  
.407 -.1524 -.1691  
.548 -.0657 -.0558  
.690 .0279 .0210  
.831 .1998 .1799

ALPHA ( 2 ) = -.482 BETA ( 1 ) = -3.994 MACH = 1.2535 RN/L = 4.3392 PO = 2107.9 P = 809.98

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2591 -.3885  
.407 -.1680 -.3067  
.548 -.0939 -.0638  
.690 -.0969 .0013  
.831 .3076 .0256

ALPHA ( 2 ) = -.439 BETA ( 2 ) = -.003 MACH = 1.2535 RN/L = 4.3392 PO = 2107.9 P = 809.98

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3461 -.2991  
.407 -.1674 -.1860  
.548 -.0951 -.0727  
.690 .0133 .0063  
.831 .3303 .2654

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4098)

ALPHA ( 2 ) = -.416 BETA ( 3 ) = 4.025 MACH = 1.2535 RN/L = 4.3332 PO = 2107.9 P = 809.98

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4325	-.2151
.407	-.2717	-.1814
.548	-.0641	-.0888
.690	-.0001	-.0868
.831	.0329	.2678

ALPHA ( 3 ) = 4.020 BETA ( 1 ) = .003 MACH = 1.2508 RN/L = 4.3353 PO = 2107.7 P = 812.82

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3802	-.3317
.407	-.1937	-.2005
.548	-.1123	-.1121
.690	-.0197	-.0214
.831	.2167	.1754

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4099) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = 4.000 ELV-08 = 4.000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.944 BETA ( 1 ) = .009 MACH = 1.4093 RN/L = 4.2699 PO = 2108.4 P = 653.90

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2151 -.1673  
.407 -.1762 -.1943  
.548 -.0616 -.0546  
.690 .0158 .0166  
.831 .1973 .1562

ALPHA ( 2 ) = -.403 BETA ( 1 ) = -3.991 MACH = 1.4102 RN/L = 4.2615 PO = 2109.3 P = 653.36

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.1443 -.2709  
.407 -.1886 -.2887  
.548 -.0567 -.0879  
.690 -.0564 -.0128  
.831 .2528 .0428

ALPHA ( 2 ) = -.386 BETA ( 2 ) = .012 MACH = 1.4102 RN/L = 4.2615 PO = 2109.3 P = 653.36

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2385 -.1895  
.407 -.2057 -.2243  
.548 -.0599 -.0576  
.690 .0039 .0017  
.831 .2428 .2150

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ARC11-0231A80 OTS(SRB=N ORB=N )

ORB FUSE

(RE4C99)

ALPHA ( 2 ) = -.443 BETA ( 3 ) = 4.034 MACH = 1.4102 RN/L = 4.2615 PO = 2109.3 P = 653.36

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3032	-.1033
.407	-.2947	-.1928
.548	-.0872	-.0521
.690	-.0190	-.0563
.831	.0622	.2642

ALPHA ( 3 ) = 3.864 BETA ( 1 ) = .012 MACH = 1.4084 RN/L = 4.2570 PO = 2109.1 P = 654.92

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.2502	-.2050
.407	-.2611	-.2779
.548	-.0817	-.0904
.690	-.0310	-.0277
.831	.2253	.2014

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4CA0) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = 4.000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = .000 BETA ( 1 ) = .000 MACH = .60180 RN/L = 3.5043 PO = 2121.1 P = 1660.6

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3234 -.3599  
.407 -.0359 -.0373  
.548 .0047 .0044  
.690 .0016 -.0041  
.831 .0617 .0441

ALPHA ( 2 ) = -.281 BETA ( 1 ) = -4.003 MACH = .59723 RN/L = 3.4829 PO = 2122.3 P = 1667.4

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3048 -.4451  
.407 -.0855 -.0944  
.548 -.0856 -.0527  
.690 -.0830 -.0741  
.831 .2831 -.2066

ALPHA ( 2 ) = -.287 BETA ( 2 ) = .012 MACH = .59723 RN/L = 3.4829 PO = 2122.3 P = 1667.4

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3460 -.3835  
.407 -.0590 -.0573  
.548 -.0314 -.0307  
.690 -.0388 -.0382  
.831 .0565 .0524

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4CA0)

ALPHA ( 2 ) = -.301 BETA ( 3 ) = 4.028 MACH = .59723 RN/L = 3.4829 PO = 2122.3 P = 1667.4

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4039	-.3436
.407	-.1029	-.0899
.548	-.0650	-.0935
.690	-.0809	-.0908
.831	-.1880	.2959

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = .012 MACH = .59790 RN/L = 3.4847 PO = 2122.5 P = 1666.8

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3748	-.4175
.407	-.0959	-.0993
.548	-.0827	-.0834
.690	-.0876	-.0893
.831	.0533	.0592

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DATE 23 JUL 76

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ARC11-0231A80 OTS(SRB-OFF ORB-OFF)

ORB FUSE

(RE4CA1) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = 4.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.996 BETA ( 1 ) = .009 MACH = .89940 RN/L = 4.2300 PO = 2121.8 P = 1255.3

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.7929 -.7605  
.407 .0120 .0140  
.548 .0382 .0418  
.690 .0206 .0102  
.831 .1076 .0861

ALPHA ( 2 ) = -.281 BETA ( 1 ) = -4.006 MACH = .90087 RN/L = 4.2382 PO = 2122.0 P = 1253.5

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.7025 -.8861  
.407 -.0448 .0075  
.548 -.0578 -.0136  
.690 -.1495 -.0439  
.831 .2651 -.0403

ALPHA ( 2 ) = -.284 BETA ( 2 ) = .009 MACH = .90087 RN/L = 4.2382 PO = 2122.0 P = 1253.5

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.8069 -.7312  
.407 .0282 .0278  
.548 .0170 .0192  
.690 -.0338 -.0523  
.831 .1866 .1686



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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4CA1)

ALPHA ( 2 ) = -.281 BETA ( 3 ) = 4.028 MACH = .90087 RN/L = 4.2392 PO = 2122.0 P = 1253.5

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7599	-.6229
.407	-.0014	-.0471
.548	-.0215	-.0628
.690	-.0328	-.1784
.831	.0009	.2849

ALPHA ( 3 ) = 4.023 BETA ( 1 ) = .016 MACH = .90100 RN/L = 4.2328 PO = 2121.8 P = 1253.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7816	-.6989
.407	-.0769	-.0805
.548	-.0209	-.0193
.690	-.1149	-.1575
.831	.1134	.1024

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF OPB=OFF)

ORB FUSE

(RE4CA2) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = 4.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.967 BETA ( 1 ) = .006 MACH = 1.0986 RN/L = 4.3563 PO = 2114.0 P = 991.79

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5035 -.4386  
.407 -.1728 -.1754  
.548 -.0057 -.0081  
.690 .2116 .2001  
.831 .2547 .2524

ALPHA ( 2 ) = -.284 BETA ( 1 ) = -4.003 MACH = 1.1004 RN/L = 4.3594 PO = 2113.8 P = 989.54

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4078 -.5512  
.407 -.1655 -.1720  
.548 .0611 .1250  
.690 -.0551 .1524  
.831 .4129 .0815

ALPHA ( 2 ) = -.258 BETA ( 2 ) = -.012 MACH = 1.1004 RN/L = 4.3594 PO = 2113.8 P = 989.54

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5020 -.4436  
.407 -.1811 -.1786  
.548 .0132 .0313  
.690 .1606 .1135  
.831 .4362 .4306

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4CA2)

ALPHA ( 2 ) = -.301 BETA ( 3 ) = 4.016 MACH = 1.1004 RN/L = 4.3594 PO = 2113.8 P = 989.54

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.6086	-.3559
.407	-.1818	-.1733
.548	.1044	.0677
.690	.1416	-.0868
.831	.0995	.3985

ALPHA ( 3 ) = 3.947 BETA ( 1 ) = .000 MACH = 1.1030 RN/L = 4.3633 PO = 2114.0 P = 986.41

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5223	-.4682
.407	-.1968	-.1928
.549	.1683	.1673
.690	.0571	.0295
.831	.2888	.2577

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4CA3) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = 4.000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.947 BETA ( 1 ) = -.006 MACH = 1.2545 RN/L = 4.3671 PO = 2114.0 P = 811.27

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3272 -.2755  
.407 -.1531 -.1713  
.548 -.0735 -.0601  
.690 .0216 .0165  
.831 .2013 .1753

ALPHA ( 2 ) = -.248 BETA ( 1 ) = -4.000 MACH = 1.2545 RN/L = 4.3581 PO = 2114.0 P = 811.32

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.2590 -.3884  
.407 -.1675 -.3095  
.548 -.1028 -.0647  
.690 -.0973 -.0005  
.831 .3258 .0244

ALPHA ( 2 ) = -.244 BETA ( 2 ) = -.006 MACH = 1.2545 RN/L = 4.3581 PO = 2114.0 P = 811.32

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.3462 -.2979  
.407 -.1690 -.1875  
.548 -.0880 -.0761  
.690 .0096 .0026  
.831 .3348 .2793

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4CA3)

ALPHA ( 2 ) = -.271 BETA ( 3 ) = 4.022 MACH = 1.2545 RN/L = 4.3581 PO = 2114.0 P = 811.32

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4331	-.2155
.407	-.2721	-.1836
.548	-.0674	-.0973
.690	-.0050	-.0940
.831	.0334	.2607

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = .003 MACH = 1.2546 RN/L = 4.3551 PO = 2114.0 P = 811.12

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3752	-.3268
.407	-.1881	-.1973
.548	-.1131	-.1133
.690	-.0155	-.0215
.831	.2292	.1783

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

ORB FUSE

(RE4CA4) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = 4.000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.947 BETA ( 1 ) = .006 MACH = 1.4033 RN/L = 4.3439 PO = 2107.0 P = 659.02

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2183 -.1706  
.407 -.1821 -.1976  
.548 -.0689 -.0593  
.690 .0073 .0130  
.831 .2019 .1583

ALPHA ( 2 ) = -.267 BETA ( 1 ) = -3.994 MACH = 1.4040 RN/L = 4.3128 PO = 2099.2 P = 655.94

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.1524 -.2766  
.407 -.1973 -.2963  
.548 -.0709 -.0923  
.690 -.0655 -.0149  
.831 .2529 .0379

ALPHA ( 2 ) = -.277 BETA ( 2 ) = -.003 MACH = 1.4040 RN/L = 4.3128 PO = 2099.2 P = 655.94

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2444 -.1938  
.407 -.2109 -.2306  
.548 -.0659 -.0648  
.690 -.0001 -.0032  
.831 .2436 .2085

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) ORB FUSE

(RE4CA4)

ALPHA ( 2 ) = -.284 BETA ( 3 ) = 4.019 MACH = 1.4040 RN/L = 4.3128 PO = 2099.2 P = 655.34

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3108	-.1102
.407	-.3013	-.1989
.548	-.0907	-.0621
.690	-.0243	-.0658
.831	.0595	.2565

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = .006 MACH = 1.3970 RN/L = 4.2777 PO = 2085.7 P = 658.6

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.2611	-.2130
.407	-.2703	-.2879
.548	-.0933	-.0932
.690	-.0333	-.0382
.831	.2271	.1951

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4CA5) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-09 = 4.000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.983 BETA ( 1 ) = .012 MACH = .59900 RN/L = 3.4730 PO = 2113.3 P = 1659.1

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3391 -.3743  
.407 -.0616 -.0551  
.548 -.0254 -.0182  
.690 -.0366 -.0417  
.831 .0400 .0116

ALPHA ( 2 ) = -.337 BETA ( 1 ) = -4.006 MACH = .60037 RN/L = 3.4773 PO = 2112.8 P = 1656.0

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3110 -.4493  
.407 -.0882 -.0964  
.548 -.0923 -.0623  
.690 -.0985 -.0944  
.831 .2638 -.2524

ALPHA ( 2 ) = -.370 BETA ( 2 ) = .009 MACH = .60037 RN/L = 3.4773 PO = 2112.8 P = 1656.0

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3574 -.3999  
.407 -.0686 -.0659  
.548 -.0425 -.0449  
.690 -.0558 -.0629  
.831 .0252 .0198



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ARC11-0231A80 OTS(SRB=N ORB=N )

ORB FUSE

(RE4CA5)

ALPHA ( 2 ) = -.453 BETA ( 3 ) = 4.025 MACH = .60037 RN/L = 3.4773 PO = 2112.8 P = 1656.0

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4086	-.3476
.407	-.1019	-.0900
.548	-.0687	-.0954
.690	-.0896	-.1008
.831	-.2209	.2777

ALPHA ( 3 ) = 3.910 BETA ( 1 ) = .009 MACH = .60100 RN/L = 3.4798 PO = 2112.6 P = 1655.0

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3839	-.4230
.407	-.0994	-.0990
.548	-.0833	-.0853
.690	-.0989	-.1054
.831	.0319	.0363

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4CA6) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = 4.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.937 BETA ( 1 ) = .016 MACH = .90250 RN/L = 4.2121 PO = 2111.9 P = 1245.3

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.8286 -.7582  
.407 .0175 .0183  
.548 .0330 .0369  
.690 .0141 .0025  
.831 .1095 .0777

ALPHA ( 2 ) = -.376 BETA ( 1 ) = -4.006 MACH = .90930 RN/L = 4.2268 PO = 2111.9 P = 1236.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.6981 -.8869  
.407 -.0381 .0131  
.548 -.0553 -.0083  
.690 -.1510 -.0423  
.831 .2727 -.0283

ALPHA ( 2 ) = -.353 BETA ( 2 ) = .009 MACH = .90930 RN/L = 4.2268 PO = 2111.9 P = 1236.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.7929 -.7181  
.407 .0398 .0392  
.548 .0208 .0250  
.690 -.0297 -.0504  
.831 .1840 .1783

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4CA6)

ALPHA ( 2 ) = -.420 BETA ( 3 ) = 4.022 MACH = .90930 RN/L = 4.2268 PO = 2111.9 P = 1236.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7861	-.6122
.407	.0006	-.0345
.548	-.0065	-.0454
.690	-.0200	-.1806
.831	.0097	.2810

ALPHA ( 3 ) = 3.910 BETA ( 1 ) = .006 MACH = .91060 RN/L = 4.2296 PO = 2111.9 P = 1234.3

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.8039	-.7374
.407	-.0058	-.0044
.548	-.0156	-.0136
.690	-.1172	-.1667
.831	.1367	.1231

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4CA7) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = 4.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.996 BETA ( 1 ) = .006 MACH = 1.0997 RN/L = 4.3565 PO = 2107.7 P = 987.56

SECTION ( 11ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5017 -.4355  
.407 -.1710 -.1734  
.548 -.0019 -.0005  
.690 .2070 .1984  
.831 .2563 .2459

ALPHA ( 2 ) = -.416 BETA ( 1 ) = -4.003 MACH = 1.0993 RN/L = 4.3567 PO = 2107.7 P = 988.07

SECTION ( 11ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4083 -.5510  
.407 -.1677 -.1831  
.548 .0681 .1299  
.690 -.0475 .1557  
.831 .4160 .0791

ALPHA ( 2 ) = -.403 BETA ( 2 ) = -.012 MACH = 1.0993 RN/L = 4.3567 PO = 2107.7 P = 989.07

SECTION ( 11ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5039 -.4449  
.407 -.1791 -.1774  
.548 .1129 .1302  
.690 .1694 .1231  
.831 .4402 .4276

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ARC11-0231A80 OTS(SRB=N ORB=N )

ORB FUSE

(RE4CA7)

ALPHA ( 2 ) = -.426 BETA ( 3 ) = 4.019 MACH = 1.0993 RN/L = 4.3567 PO = 2107.7 P = 988.07

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.6082	-.3537
.407	-.1774	-.1603
.548	.1044	.0648
.690	.1491	-.0816
.831	.0965	.4030

ALPHA ( 3 ) = 3.798 BETA ( 1 ) = .009 MACH = 1.0994 RN/L = 4.3619 PO = 2107.7 P = 987.85

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5254	-.4713
.407	-.1656	-.1789
.548	.1676	.1681
.690	.0484	.0212
.831	.2795	.2569

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4CAB) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-!B = .000 ELV-OB = 4.000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.986 BETA ( 1 ) = .009 MACH = 1.2550 RN/L = 4.3537 PO = 2109.1 P = 808.83

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3279 -.2762  
.407 -.1536 -.1706  
.548 -.0690 -.0578  
.690 -.0242 -.0198  
.831 .1990 .1777

ALPHA ( 2 ) = -.400 BETA ( 1 ) = -4.003 MACH = 1.2517 RN/L = 4.3574 PO = 2109.1 P = 812.36

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2594 -.3881  
.407 -.1680 -.3085  
.548 -.0967 -.0646  
.690 -.0943 .0015  
.831 .3037 .0241

ALPHA ( 2 ) = -.393 BETA ( 2 ) = -.012 MACH = 1.2517 RN/L = 4.3574 PO = 2109.1 P = 812.36

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3454 -.2991  
.407 -.1662 -.1836  
.548 -.0794 -.0711  
.690 .0126 .0055  
.831 .3344 .2685

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) ORB FUSE

(RE4CA8)

ALPHA ( 2 ) = -.413 BETA ( 3 ) = 4.022 MACH = 1.2517 RN/L = 4.3574 PO = 2109.1 P = 812.36

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4382	-.2205
.407	-.2736	-.1848
.548	-.0697	-.0913
.690	-.0056	-.0925
.831	.0304	.2646

ALPHA ( 3 ) = 3.947 BETA ( 1 ) = .003 MACH = 1.2539 RN/L = 4.3574 PO = 2109.1 P = 810.01

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3764	-.3271
.407	-.1903	-.2022
.548	-.1109	-.1073
.690	-.0146	-.0175
.831	.2199	.1757

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ARC11-0231A80 OTS(SRB=N ORB=N )

ORB FUSE

(RE4CA9) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = 4.000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.940 BETA ( 1 ) = .009 MACH = 1.4085 RN/L = 4.2899 PO = 2110.5 P = 655.32

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0060

XO/LO

.260 -.2161 -.1677  
.407 -.1781 -.1963  
.548 -.0653 -.0570  
.690 .0136 .0169  
.831 .1938 .1650

ALPHA ( 2 ) = -.449 BETA ( 1 ) = -3.997 MACH = 1.4066 RN/L = 4.2802 PO = 2110.5 P = 657.03

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.1482 -.2733  
.407 -.1919 -.2945  
.548 -.0644 -.0880  
.690 -.0581 -.0140  
.831 .2492 .0422

ALPHA ( 2 ) = -.380 BETA ( 2 ) = -.006 MACH = 1.4066 RN/L = 4.2802 PO = 2110.5 P = 657.03

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2412 -.1938  
.407 -.2087 -.2290  
.548 -.0645 -.0603  
.690 .0008 -.0011  
.831 .2407 .2102



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ARC11-0231A80 OTS(SRB=N ORB=N )

ORB FUSE

(RE4CA9)

ALPHA ( 2 ) = -.443 BETA ( 3 ) = 4.025 MACH = 1.4066 RN/L = 4.2802 PO = 2110.5 P = 657.03

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3077	-.1071
.407	-.3009	-.1937
.548	-.0884	-.0568
.690	-.0205	-.0592
.831	.0621	.2588

ALPHA ( 3 ) = 3.821 BETA ( 1 ) = .006 MACH = 1.4060 RN/L = 4.2706 PO = 2109.8 P = 657.37

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.2533	-.2075
.407	-.2641	-.2803
.548	-.0844	-.0876
.690	-.0316	-.0286
.831	.2289	.2015

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)ORB FUSE

(RE4CB0) ( 13 JAN 5 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -4.013 BETA ( 1 ) = .006 MACH = .60070 RN/L = 3.5069 PO = 2116.2 P = 1658.2

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3285 -.3607  
.407 -.0443 -.0416  
.548 -.0043 -.0060  
.690 -.0097 -.0114  
.831 .0535 .0293

ALPHA ( 2 ) = -.271 BETA ( 1 ) = -4.006 MACH = .59863 RN/L = 3.4917 PO = 2115.4 P = 1660.2

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3217 -.4618  
.407 -.0989 -.1137  
.548 -.1025 -.0768  
.690 -.1080 -.0981  
.831 .2661 -.2402

ALPHA ( 2 ) = -.310 BETA ( 2 ) = .003 MACH = .59863 RN/L = 3.4917 PO = 2115.4 P = 1660.2

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3478 -.3891  
.407 -.0549 -.0559  
.548 -.0223 -.0277  
.690 -.0390 -.0386  
.831 .0373 .0400

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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)ORB FUSE

(RE4CB0)

ALPHA ( 2 ) = -.310 BETA ( 3 ) = 4.025 MACH = .59863 RN/L = 3.4917 PO = 2115.4 P = 1660.2

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4124	-.3457
.407	-.1093	-.0894
.548	-.0723	-.0981
.690	-.0890	-.0918
.831	-.2183	.2890

ALPHA ( 3 ) = 3.930 BETA ( 1 ) = .009 MACH = .59910 RN/L = 3.4923 PO = 2115.4 P = 1659.7

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3765	-.4159
.407	-.0948	-.0955
.548	-.0774	-.0818
.690	-.0940	-.0943
.831	.0380	.0524

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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)ORB FUSE

(RE4CB1) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -4.069 BETA ( 1 ) = .009 MACH = .90080 RN/L = 4.2148 PO = 2109.8 P = 1246.4

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8463 -.7658  
.407 .0132 .0138  
.548 .0348 .0346  
.690 .0164 .0017  
.831 .1058 .0786

ALPHA ( 2 ) = -.304 BETA ( 1 ) = -4.006 MACH = .90390 RN/L = 4.2180 PO = 2109.6 P = 1242.0

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7093 -.8917  
.407 -.0454 .0077  
.548 -.0575 -.0142  
.690 -.1567 -.0481  
.831 .2636 -.0445

ALPHA ( 2 ) = -.317 BETA ( 2 ) = .003 MACH = .90390 RN/L = 4.2180 PO = 2109.6 P = 1242.0

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7932 -.7159  
.407 .0404 .0392  
.548 .0288 .0276  
.690 -.0268 -.0457  
.831 .1864 .1726

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)ORB FUSE

(RE4CB1)

ALPHA ( 2 ) = -.357 BETA ( 3 ) = 4.025 MACH = .90390 RN/L = 4.21E0 PO = 2109.6 P = 1242.0

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7669	-.6238
.407	.0027	-.0451
.548	-.0161	-.0602
.690	-.0369	-.1862
.831	.0061	.2857

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = .019 MACH = .90670 RN/L = 4.2222 PO = 2109.8 P = 1238.4

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.8134	-.7446
.407	-.0087	-.0101
.548	-.0170	-.0206
.690	-.1207	-.1694
.831	.1319	.1219

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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)ORB FUSE

(RE4CB2) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.973 BETA ( 1 ) = -.009 MACH = 1.0946 RN/L = 4.3814 PO = 2106.2 P = 993.13

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5084 -.4420  
.407 -.1689 -.1707  
.548 .0814 .1110  
.690 .2027 .1915  
.831 .2585 .2581

ALPHA ( 2 ) = -.393 BETA ( 1 ) = -4.006 MACH = 1.0958 RN/L = 4.3828 PO = 2105.7 P = 991.34

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4077 -.5564  
.407 -.1704 -.1846  
.548 .0695 .1261  
.690 -.0509 .1576  
.831 .4177 .0824

ALPHA ( 2 ) = -.340 BETA ( 2 ) = -.016 MACH = 1.0958 RN/L = 4.3828 PO = 2105.7 P = 991.34

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5147 -.4546  
.407 -.1826 -.1814  
.548 .1322 .1428  
.690 .1579 .1112  
.831 .4373 .4166

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)ORB FUSE

(RE4CB2)

ALPHA ( 2 ) = - .357 BETA ( 3 ) = 4.016 MACH = 1.0958 RN/L = 4.3828 PO = 2105.7 P = 991.34

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.6138	-.3584
.407	-.1721	-.1601
.548	.1146	.0563
.690	.1363	-.0871
.831	.0899	.3907

ALPHA ( 3 ) = 4.026 BETA ( 1 ) = -.016 MACH = 1.1011 RN/L = 4.3891 PO = 2106.2 P = 985.19

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5229	-.4700
.407	-.1740	-.1687
.548	.1665	.1644
.690	.0473	.0199
.831	.2764	.2499

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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)ORB FUSE

(RE4CB3) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.947 BETA ( 1 ) = -.003 MACH = 1.2463 RN/L = 4.4021 PO = 2107.0 P = 817.37

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3362 -.2850  
.407 -.1556 -.1689  
.548 -.0633 -.0568  
.690 .0216 .0176  
.831 .1954 .1806

ALPHA ( 2 ) = -.400 BETA ( 1 ) = -4.000 MACH = 1.2440 RN/L = 4.3992 PO = 2107.0 P = 819.92

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2738 -.4019  
.407 -.1672 -.2937  
.548 -.0957 -.0654  
.690 -.0928 -.0027  
.831 .2985 .0251

ALPHA ( 2 ) = -.370 BETA ( 2 ) = -.009 MACH = 1.2440 RN/L = 4.3992 PO = 2107.0 P = 819.92

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3503 -.3038  
.407 -.1669 -.1825  
.548 -.0770 -.0715  
.690 .0138 .0053  
.831 .3295 .2758



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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)ORB FUSEL

(RE4CB3)

ALPHA ( 2 ) = -.420 BETA ( 3 ) = 4.019 MACH = 1.2440 RN/L = 4.3992 PO = 2107.0 P = 819.92

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4417	-.2234
.407	-.2697	-.1822
.548	-.0670	-.0933
.690	-.0051	-.0921
.831	.0347	.2554

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = -.012 MACH = 1.2457 RN/L = 4.4005 PO = 2107.7 P = 818.39

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3841	-.3339
.407	-.1893	-.1995
.548	-.1038	-.1101
.690	-.0142	-.0175
.831	.2141	.1747

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)ORB FUSE

(RE4CB4) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.957 BETA ( 1 ) = -.003 MACH = 1.4002 RN/L = 4.3550 PO = 2109.8 P = 662.79

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2218 -.1711  
.407 -.1820 -.2004  
.548 -.0545 -.0572  
.690 .0108 .0146  
.831 .1941 .1596

ALPHA ( 2 ) = -.443 BETA ( 1 ) = -4.000 MACH = 1.3986 RN/L = 4.3460 PO = 2103.6 P = 664.22

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.1520 -.2784  
.407 -.1946 -.2972  
.548 -.0617 -.0888  
.690 -.0607 -.0129  
.831 .2511 .0398

ALPHA ( 2 ) = -.406 BETA ( 2 ) = -.006 MACH = 1.3986 RN/L = 4.3460 PO = 2109.6 P = 664.22

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2489 -.1955  
.407 -.2159 -.2316  
.548 -.0628 -.0613  
.690 -.0022 -.0037  
.831 .2428 .2112

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)ORB FUSE

(RE4CB4)

ALPHA ( 2 ) = -.446 BETA ( 3 ) = 4.019 MACH = 1.3986 RN/L = 4.3460 PO = 2109.6 P = 664.22

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3150	-.1139
.407	-.3027	-.1955
.548	-.0863	-.0581
.690	-.0230	-.0628
.831	.0576	.2570

ALPHA ( 3 ) = 3.953 BETA ( 1 ) = -.009 MACH = 1.3971 RN/L = 4.3340 PO = 2109.8 P = 665.69

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.2612	-.2133
.407	-.2711	-.2887
.548	-.0879	-.0920
.690	-.0397	-.0364
.831	.2191	.1924

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)ORB FUSE

(RE4CB5) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -4.072 BETA ( 1 ) = .012 MACH = .58560 RN/L = 3.4206 PO = 2115.4 P = 1677.1

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3381 -.3763  
.407 -.0832 -.0748  
.548 -.0529 -.0483  
.690 -.0701 -.0733  
.831 .0389 .0155

ALPHA ( 2 ) = -.284 BETA ( 1 ) = -4.003 MACH = .60257 RN/L = 3.4870 PO = 2114.9 P = 1654.8

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3102 -.4567  
.407 -.0891 -.0950  
.548 -.0832 -.0629  
.690 -.0944 -.0903  
.831 .2702 -.2417

ALPHA ( 2 ) = -.337 BETA ( 2 ) = .003 MACH = .60257 RN/L = 3.4870 PO = 2114.9 P = 1654.8

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3554 -.3935  
.407 -.0700 -.0649  
.548 -.0415 -.0415  
.690 -.0572 -.0599  
.831 .0313 .0282

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)ORB FUSE

(RE4CB5)

ALPHA ( 2 ) = -.367 BETA ( 3 ) = 4.025 MACH = .60257 RN/L = 3.4870 PO = 2114.9 P = 1654.8

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4113	-.3423
.407	-.0981	-.0887
.548	-.0577	-.0970
.690	-.0760	-.0892
.831	-.2061	.2895

ALPHA ( 3 ) = 3.868 BETA ( 1 ) = .006 MACH = .59730 RN/L = 3.4653 PO = 2114.7 P = 1651.5

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3841	-.4214
.407	-.1008	-.1011
.548	-.0825	-.0855
.690	-.0948	-.0999
.831	.0288	.0460

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)ORB FUSE

(RE4CB6) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 CLV-OB = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -4.013 BETA ( 1 ) = .009 MACH = .89890 RN/L = 4.2040 PO = 2109.8 P = 1249.0

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8475 -.7706  
.407 .0119 .0099  
.548 .0282 .0307  
.690 .0093 -.0026  
.831 .0997 .0773

ALPHA ( 2 ) = -.317 BETA ( 1 ) = -4.003 MACH = .90107 RN/L = 4.2091 PO = 2108.6 P = 1245.3

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.7004 -.8864  
.407 -.0430 .0079  
.548 -.0558 -.0159  
.690 -.1558 -.0483  
.831 .2617 -.0314

ALPHA ( 2 ) = -.310 BETA ( 2 ) = .003 MACH = .90107 RN/L = 4.2091 PO = 2108.6 P = 1245.3

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8165 -.7404  
.407 .0177 .0163  
.548 .0117 .0095  
.690 -.0442 -.0611  
.831 .1697 .1582

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ARC11-0231A80 OTS(SRB=N ORC NO.1 OUT)ORB FUSE

(RE4CB6)

ALPHA ( 2 ) = -.340 BETA ( 3 ) = 4.025 MACH = .90107 RN/L = 4.2091 PO = 2108.6 P = 1245.3

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7776	-.6218
.407	.0017	-.0402
.548	-.0159	-.0586
.690	-.0351	-.1883
.831	.0068	.2711

ALPHA ( 3 ) = 3.854 BETA ( 1 ) = .009 MACH = .90130 RN/L = 4.2066 PO = 2109.1 P = 1245.3

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.8232	-.7558
.407	-.0124	-.0130
.548	-.0213	-.0241
.690	-.1245	-.1689
.831	.1310	.1211

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)ORB FUSE

(RE4CB7) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -4.003 BETA ( 1 ) = -.012 MACH = 1.0992 RN/L = 4.3803 PO = 2102.7 P = 985.74

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.5044 -.4353  
.407 -.1752 -.1756  
.548 -.0357 -.0237  
.690 .1959 .1800  
.831 .2469 .2474

ALPHA ( 2 ) = -.393 BETA ( 1 ) = -4.006 MACH = 1.1052 RN/L = 4.3824 PO = 2102.7 P = 978.47

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.4079 -.5482  
.407 -.1857 -.1839  
.548 .0680 .1190  
.690 -.0326 .1641  
.831 .4138 .0882

ALPHA ( 2 ) = -.347 BETA ( 2 ) = -.019 MACH = 1.1052 RN/L = 4.3824 PO = 2102.7 P = 978.47

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.4997 -.4383  
.407 -.1749 -.1732  
.548 .0607 .0807  
.690 .1622 .1107  
.831 .4311 .4263



DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)ORB FUSE

(RE4CB7)

ALPHA ( 2 ) = -.383 BETA ( 3 ) = 4.012 MACH = 1.1052 RN/L = 4.3824 PO = 2102.7 P = 978.47

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.6032	-.3498
.407	-.2211	-.1822
.548	.0995	-.0124
.690	.1544	-.0726
.831	.1001	.4224

ALPHA ( 3 ) = 4.049 BETA ( 1 ) = -.012 MACH = 1.1075 RN/L = 4.3846 PO = 2102.7 P = 975.58

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5216	-.4626
.407	-.2023	-.1905
.548	.1423	.1370
.690	.0554	.0296
.831	.2812	.2640

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)ORB FUSE

(RE4CBB) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.914 BETA ( 1 ) = -.009 MACH = 1.2513 RN/L = 4.3952 PO = 2104.1 P = 810.95

SECTION ( 1 )ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3321 -.2786  
.407 -.1559 -.1702  
.548 -.0648 -.0645  
.690 .0190 .0178  
.831 .1937 .1737

ALPHA ( 2 ) = -.353 BETA ( 1 ) = -.006 MACH = 1.2491 RN/L = 4.3920 PO = 2104.8 P = 813.54

SECTION ( 1 )ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2670 -.3914  
.407 -.1783 -.3101  
.548 -.0939 -.0676  
.690 -.0904 .0010  
.831 .2875 .0245

ALPHA ( 2 ) = -.367 BETA ( 2 ) = -.016 MACH = 1.2491 RN/L = 4.3920 PO = 2104.8 P = 813.54

SECTION ( 1 )ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.3514 -.3014  
.407 -.1678 -.1818  
.548 -.0785 -.0792  
.690 .0093 .0050  
.831 .3267 .2758

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)ORB FUSE

(RE4CB8)

ALPHA ( 2 ) = -.393 BETA ( 3 ) = 4.016 MACH = 1.2491 RN/L = 4.3920 PO = 2104.8 P = 813.54

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.4408	-.2172
.407	-.2717	-.1825
.548	-.0648	-.0915
.690	-.0027	-.0908
.831	.0288	.2701

ALPHA ( 3 ) = 4.053 BETA ( 1 ) = -.012 MACH = 1.2485 RN/L = 4.3917 PO = 2104.1 P = 813.89

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3828	-.3314
.407	-.1945	-.2058
.548	-.1119	-.1138
.690	-.0184	-.0247
.831	.2134	.1742

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)ORB FUSE

(RE4CB9) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.934 BETA ( 1 ) = -.009 MACH = 1.4069 RN/L = 4.3421 PO = 2107.0 P = 655.71

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2173 -.1665  
.407 -.1763 -.1966  
.548 -.0562 -.0613  
.690 .0167 .0192  
.831 .1925 .1682

ALPHA ( 2 ) = -.426 BETA ( 1 ) = -4.006 MACH = 1.4068 RN/L = 4.3356 PO = 2107.7 P = 655.95

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.1502 -.2725  
.407 -.1918 -.2917  
.548 -.0561 -.0895  
.690 -.0561 -.0131  
.831 .2474 .0450

ALPHA ( 2 ) = -.383 BETA ( 2 ) = -.016 MACH = 1.4068 RN/L = 4.3356 PO = 2107.7 P = 655.95

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.2427 -.1899  
.407 -.2070 -.2254  
.548 -.0605 -.0627  
.690 .0019 .0006  
.831 .2472 .2182

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)ORB FUSE

(RE4CB9)

ALPHA ( 2 ) = -.436 BETA ( 3 ) = 4.016 MACH = 1.4068 RN/L = 4.3356 PO = 2107.7 P = 655.95

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.3091	-.1059
.407	-.3016	-.1936
.548	-.0889	-.0591
.690	-.0217	-.0582
.831	.0631	.2422

ALPHA ( 3 ) = 4.046 BETA ( 1 ) = -.012 MACH = 1.4068 RN/L = 4.3293 PO = 2108.4 P = 656.24

SECTION ( 1 )ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.2545	-.2046
.407	-.2643	-.2851
.548	-.0769	-.0830
.690	-.0357	-.0310
.831	.2226	.2023

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(ET SPOIL(SRB=ORB=OFF)ORB FUSE

(RE4CC0) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -4.029 BETA ( 1 ) = .016 MACH = .89710 RN/L = 4.2461 PO = 2124.6 P = 1260.2

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8045 -.7630  
.407 .0089 .0103  
.548 .0306 .0306  
.690 .0080 -.0020  
.831 .1003 .0778

ALPHA ( 2 ) = -.241 BETA ( 1 ) = -4.009 MACH = .90283 RN/L = 4.2516 PO = 2122.7 P = 1251.2

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.6956 -.8958  
.407 -.0411 .0137  
.548 -.0514 -.0088  
.690 -.1496 -.0404  
.831 .2627 -.0260

ALPHA ( 2 ) = -.264 BETA ( 2 ) = -.003 MACH = .90283 RN/L = 4.2516 PO = 2122.7 P = 1251.2

SECTION ( 1 ) ORB. FUSEL. RADIAL DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.8120 -.7359  
.407 .0241 .0229  
.548 .0155 .0121  
.690 -.0411 -.0588  
.831 .1813 .1637

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(ET SPOIL(SRB=ORB=OFF)ORB FUSE

(RE4CC0)

ALPHA ( 2 ) = -.291 BETA ( 3 ) = 4.022 MACH = .90283 RN/L = 4.2516 PO = 2122.7 P = 1251.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

X0/LO

.260	-.7721	-.6170
.407	.0091	-.0383
.548	-.0062	-.0520
.690	-.0241	-.1668
.831	.0147	.2956

ALPHA ( 3 ) = 3.980 BETA ( 1 ) = .016 MACH = .90820 RN/L = 4.2637 PO = 2123.2 P = 1244.2

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

X0/LO

.260	-.8111	-.7428
.407	-.0042	-.0040
.548	-.0100	-.0168
.690	-.1169	-.1613
.831	.1409	.1284

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(ET SPOIL(SRB=ORB=OFF)ORB FLSE

(RE4CC1) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -4.000 BETA ( 1 ) = .012 MACH = 1.1039 RN/L = 4.4630 PO = 2123.2 P = 989.56

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4946 -.4262  
.407 -.1719 -.1707  
.548 -.0263 -.0250  
.690 .2077 .1971  
.831 .2553 .2459

ALPHA ( 2 ) = -.264 BETA ( 1 ) = -4.009 MACH = 1.1017 RN/L = 4.4844 PO = 2124.6 P = 992.96

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4057 -.5537  
.407 -.1814 -.2021  
.548 .0664 .1247  
.690 -.0527 .1578  
.831 .4181 .0760

ALPHA ( 2 ) = -.284 BETA ( 2 ) = .000 MACH = 1.1017 RN/L = 4.4844 PO = 2124.6 P = 992.96

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.5091 -.4446  
.407 -.1848 -.1777  
.548 .1118 .1108  
.690 .1594 .1089  
.831 .4391 .4073



DATE 23 JUL 76

TABULATED SOURCE DATA - 1480

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ARC11-0231A80 OTS(ET SPOIL(SRB=ORB=OFF)ORB FUSE

(RE4CC1)

ALPHA ( 2 ) = -.297 BETA ( 3 ) = 4.022 MACH = 1.1017 RN/L = 4.4844 PO = 2124.6 P = 992.96

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.6037	-.3476
.407	-.1813	-.1685
.548	.1135	.0667
.690	.1497	-.0823
.831	.1023	.4095

ALPHA ( 3 ) = 3.910 BETA ( 1 ) = .016 MACH = 1.1026 RN/L = 4.4E64 PO = 2123.9 P = 991.59

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5223	-.4680
.407	-.1994	-.1883
.548	.1755	.1657
.690	.0540	.0255
.831	.2902	.2608

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(ET SPOIL(SRB=ORB=NOM)ORB FLSE

(RE4CC2) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.2240 MACH = .900

ALPHA ( 1 ) = -3.996 BETA ( 1 ) = .016 MACH = .90230 RN/L = 4.2244 PO = 2111.2 P = 1245.1

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.8001 -.7573  
.407 .0154 .0162  
.548 .0441 .0409  
.690 .0237 .0111  
.831 .1050 .0851

ALPHA ( 2 ) = -.284 BETA ( 1 ) = -4.012 MACH = .90030 RN/L = 4.2241 PO = 2110.5 P = 1247.5

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.7119 -.8894  
.407 -.0493 -.0015  
.548 -.0584 -.0177  
.690 -.1538 -.0482  
.831 .2568 -.0403

ALPHA ( 2 ) = -.360 BETA ( 2 ) = -.003 MACH = .90030 RN/L = 4.2241 PO = 2110.5 P = 1247.5

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO  
.260 -.7953 -.7192  
.407 .0358 .0354  
.548 .0273 .0239  
.690 -.0250 -.0436  
.831 .1865 .1686

DATE 23 JUL 75

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(ET SPOIL(SRB=ORB=NOM)ORB FUSE

(RE4CC2)

ALPHA ( 2 ) = -.330 BETA ( 3 ) = 4.019 MACH = .90030 RN/L = 4.2241 PO = 2110.5 P = 1247.5

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7680	-.6263
.407	-.0024	-.0473
.548	-.0180	-.0630
.690	-.0361	-.1787
.831	.0030	.2784

ALPHA ( 3 ) = 3.927 BETA ( 1 ) = .012 MACH = .89920 RN/L = 4.2176 PO = 2110.5 P = 1249.0

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.7848	-.6997
.407	-.0735	-.0761
.548	-.0193	-.0221
.690	-.1161	-.1580
.831	.1126	.1053

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(ET SPOIL(SRB=ORB=NOM)ORB FUSE

(RE4CC3) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -4.033 BETA ( 1 ) = .016 MACH = 1.1036 RN/L = 4.4660 PO = 2114.0 P = 985.75

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4946 -.4269  
.407 -.1696 -.1701  
.548 -.0079 -.0064  
.690 .2103 .1985  
.831 .2549 .2464

ALPHA ( 2 ) = -.433 BETA ( 1 ) = -4.009 MACH = 1.1009 RN/L = 4.4637 PO = 2114.0 P = 989.05

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4077 -.5538  
.407 -.1752 -.1829  
.548 .0735 .1273  
.690 -.0448 .1594  
.831 .4165 .0778

ALPHA ( 2 ) = -.446 BETA ( 2 ) = -.003 MACH = 1.1009 RN/L = 4.4637 PO = 2114.0 P = 989.05

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260 -.4971 -.4353  
.407 -.1744 -.1710  
.548 .1012 .0980  
.690 .1728 .1242  
.831 .4255 .4259

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(ET SPOIL(SRB=ORB=NOM)ORB FUSE

(RE4CC3)

ALPHA ( 2 ) = -.456 BETA ( 3 ) = 4.022 MACH = 1.1009 RN/L = 4.4637 PO = 2114.0 P = 989.05

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.6126	-.3529
.407	-.1822	-.1573
.548	.1082	.0619
.690	.1477	-.0873
.831	.0914	.4086

ALPHA ( 3 ) = 3.844 BETA ( 1 ) = .003 MACH = 1.1023 RN/L = 4.4653 PO = 2114.7 P = 987.65

SECTION ( 1 ) ORB. FUSEL. RADIAL

DEPENDENT VARIABLE CP

PHI 120.0000240.0000

XO/LO

.260	-.5216	-.4643
.407	-.1974	-.1976
.548	.1726	.1692
.690	.0577	.0293
.831	.2891	.2631

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N++ ORB=N )

BDFLAF UP

(RE4D01) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -4.013 BETA ( 1 ) = -.019 MACH = .59860 RN/L = 3.3812 PO = 2110.5 P = 1656.4

SECTION ( 1 ) BDFLAF UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3631 -.4147  
19.940 -.3615 -.4252  
39.905 -.4284 -.4630  
320.095 -.4488 -.5309  
340.060 -.3705 -.4242

ALPHA ( 2 ) = -.314 BETA ( 1 ) = -4.034 MACH = .59953 RN/L = 3.3878 PO = 2110.3 P = 1655.0

SECTION ( 1 ) BDFLAF UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3867 -.4292  
19.940 -.3864 -.4408  
39.905 -.4826 -.5148  
320.095 -.4316 -.4721  
340.060 -.3672 -.4035

ALPHA ( 2 ) = -.340 BETA ( 2 ) = -.019 MACH = .59953 RN/L = 3.3878 PO = 2110.3 P = 1655.0

SECTION ( 1 ) BDFLAF UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3711 -.4160  
19.940 -.3631 -.4299  
39.905 -.4306 -.4642  
320.095 -.4253 -.5014  
340.060 -.3625 -.4187

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N++ ORB=N )

BDFLAF UP

(RE4D01)

ALPHA ( 2 ) = -.459 BETA ( 3 ) = 3.997 MACH = .59953 RN/L = 3.3878 PO = 2110.3 P = 1655.0

SECTION ( 1 ) BDFLAF UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3789	-.4375
19.940	-.3627	-.4456
39.905	-.4104	-.4145
320.095	-.4344	-.5107
340.060	-.3830	-.4429

ALPHA ( 3 ) = 4.039 BETA ( 1 ) = -.019 MACH = .59860 RN/L = 3.3874 PO = 2109.8 P = 1655.9

SECTION ( 1 ) BDFLAF UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3660	-.4129
19.940	-.3633	-.4261
39.905	-.4258	-.4581
320.095	-.3981	-.4737
340.060	-.3660	-.4214

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ARC11-0231A80 OTS(SRB=N++ ORB=N ) BDFLAP UP

(RE4D02) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.901 BETA ( 1 ) = -.012 MACH = .90550 RN/L = 4.2328 PO = 2108.4 P = 1239.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3627 -.4135  
19.940 -.3371 -.3968  
39.905 -.3604 -.3842  
320.095 -.3995 -.4539  
340.060 -.3643 -.4161

ALPHA ( 2 ) = -.347 BETA ( 1 ) = -.4025 MACH = .90060 RN/L = 4.2176 PO = 2106.2 P = 1244.5

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3924 -.4389  
19.940 -.3896 -.4481  
39.905 -.4435 -.4648  
320.095 -.4150 -.4361  
340.060 -.3924 -.4179

ALPHA ( 2 ) = -.380 BETA ( 2 ) = -.009 MACH = .90060 RN/L = 4.2176 PO = 2106.2 P = 1244.5

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3320 -.3799  
19.940 -.3285 -.3801  
39.905 -.3679 -.3795  
320.095 -.4004 -.4417  
340.060 -.3343 -.3849



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ARC11-023:1A80 OTS(SRB=N++ ORB=N )

BDFLAP UP

(RE4D02)

ALPHA ( 2 ) = -.456 BETA ( 3 ) = 4.003 MACH = .90060 RN/L = 4.2176 PO = 2106.2 P = 1244.5

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3897	-.4516
19.940	-.3883	-.4318
39.905	-.4007	-.4444
320.095	-.4513	-.5170
340.060	-.3999	-.4546

ALPHA ( 3 ) = 3.977 BETA ( 1 ) = -.009 MACH = .89810 RN/L = 4.2116 PO = 2105.5 P = 1247.5

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3375	-.3800
19.940	-.3341	-.3856
39.905	-.3624	-.3896
320.095	-.3662	-.4238
340.060	-.3367	-.3766

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ARC11-0231A80 OTS(SRB=N++ ORB=N )

BDFLAP UP

(RE4D03) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.920 BETA ( 1 ) = -.003 MACH = 1.0986 RN/L = 4.3008 PO = 2109.8 P = 989.84

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3626 -.4205  
19.940 -.3413 -.4136  
39.905 -.3665 -.3957  
320.095 -.4044 -.4560  
340.060 -.3594 -.4074

ALPHA ( 2 ) = -.621 BETA ( 1 ) = -4.006 MACH = 1.1024 RN/L = 4.3086 PO = 2109.6 P = 985.11

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4160 -.4868  
19.940 -.3989 -.4484  
39.905 -.4957 -.5120  
320.095 -.4548 -.4990  
340.060 -.4207 -.4792

ALPHA ( 2 ) = -.641 BETA ( 2 ) = .000 MACH = 1.1024 RN/L = 4.3086 PO = 2109.6 P = 985.11

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3781 -.4373  
19.940 -.3610 -.4378  
39.905 -.3928 -.4383  
320.095 -.4181 -.4724  
340.060 -.3704 -.4255

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ARC11-0231A80 OTS(SRB=N++ ORB=N ) BDFLAP UP (RE4D03)

ALPHA ( 2 ) = -.492 BETA ( 3 ) = 4.009 MACH = 1.1024 RN/L = 4.3086 PO = 2109.6 P = 985.11

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4142	-.4835
19.940	-.4132	-.4734
39.905	-.4345	-.4742
320.095	-.4560	-.4871
340.060	-.4040	-.4732

ALPHA ( 3 ) = 3.944 BETA ( 1 ) = -.003 MACH = 1.1088 RN/L = 4.3102 PO = 2108.4 P = 976.70

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4085	-.4719
19.940	-.3987	-.4718
39.905	-.4589	-.5015
320.095	-.4464	-.5060
340.060	-.4064	-.4549

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ARC11-0231A80 OTS(SRB=N++ ORB=N )

BDFLAP UP

(RE4D04) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -4.165 BETA ( 1 ) = .000 MACH = 1.2595 RN/L = 4.4972 PO = 2140.2 P = 815.83

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2379 -.2697  
19.940 -.2255 -.2697  
39.905 -.2551 -.2712  
320.095 -.2409 -.2675  
340.060 -.2224 -.2569

ALPHA ( 2 ) = -.495 BETA ( 1 ) = -4.006 MACH = 1.2534 RN/L = 4.4312 PO = 2113.5 P = 812.32

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2870 -.3406  
19.940 -.2824 -.2960  
39.905 -.3915 -.3489  
320.095 -.3097 -.3356  
340.060 -.2775 -.3070

ALPHA ( 2 ) = -.528 BETA ( 2 ) = .000 MACH = 1.2534 RN/L = 4.4312 PO = 2113.5 P = 812.32

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2699 -.3223  
19.940 -.2588 -.3144  
39.905 -.2971 -.3298  
320.095 -.3020 -.3506  
340.060 -.2625 -.3124

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ARC11-0231A80 OTS(SRB=N++ ORB=N , BDFLAP UP

(RE4004)

ALPHA ( 2) = -.555 BETA ( 3) = 4.006 MACH = 1.2534 RN/L = 4.4312 PO = 2113.5 P = 812.32

SECTION ( 1)BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2927	-.3504
19.940	-.2853	-.3301
39.905	-.3072	-.3343
320.095	-.3153	-.3663
340.060	-.2688	-.3441

ALPHA ( 3) = 3.881 BETA ( 1) = .006 MACH = 1.2464 RN/L = 4.4257 PO = 2113.3 P = 819.82

SECTION ( 1)BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2990	-.3495
19.940	-.2914	-.3459
39.905	-.3419	-.3757
320.095	-.3581	-.4097
340.060	-.2913	-.3367

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ARC11-0231A80 OTS(SRB=N\*\* ORB=N )

BDFLAP UP

(RE4D05) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.950 BETA ( 1 ) = -.003 MACH = 1.4026 RN/L = 4.3103 PO = 2124.6 P = 665.23

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.1818 -.2159  
19.940 -.1787 -.2148  
39.905 -.1949 -.2157  
320.095 -.1958 -.2165  
340.060 -.1720 -.2075

ALPHA ( 2 ) = -.436 BETA ( 1 ) = -4.009 MACH = 1.4051 RN/L = 4.3040 PO = 2123.0 P = 662.38

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2105 -.2445  
19.940 -.2039 -.2416  
39.905 -.2565 -.2916  
320.095 -.2334 -.2542  
340.060 -.2130 -.2568

ALPHA ( 2 ) = -.482 BETA ( 2 ) = -.003 MACH = 1.4051 RN/L = 4.3040 PO = 2123.0 P = 662.36

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.1948 -.2311  
19.940 -.1883 -.2287  
39.905 -.2153 -.2443  
320.095 -.1934 -.2332  
340.060 -.1826 -.2249

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ARC11-0231A80 OTS:SRB=N\*\* ORB=N ) BDFLAP UP (RE4005)

ALPHA ( 2 ) = -.505 BETA ( 3 ) = 4.009 MACH = 1.4051 PN/L = 4.3040 PO = 2123.0 P = 662.38

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2143	-.2542
19.940	-.2061	-.2426
39.905	-.2274	-.2448
320.095	-.2195	-.2571
340.060	-.1916	-.2518

ALPHA ( 3 ) = 3.681 BETA ( 1 ) = -.006 MACH = 1.4020 RN/L = 4.3020 PO = 2122.5 P = 665.10

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1932	-.2343
19.940	-.1849	-.2325
39.905	-.2703	-.2488
320.095	-.2055	-.2573
340.060	-.1900	-.2276

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ARC11-0231A80 015(SRB=N+ ORB=N )

BDFLAP UP

(REWD06) 1 13 JAN 76

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.848 BETA ( 1 ) = -.019 MACH = .59810 RN/L = 3.3852 PO = 2109.1 P = 1656.0

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3750 -.4261  
19.940 -.3599 -.4266  
39.905 -.4399 -.4640  
320.095 -.4391 -.5267  
340.060 -.3703 -.4264

ALPHA ( 2 ) = -.350 BETA ( 1 ) = -4.039 MACH = .59800 RN/L = 3.3843 PO = 2108.4 P = 1655.5

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3793 -.4252  
19.940 -.3913 -.4429  
39.905 -.4949 -.5157  
320.095 -.4392 -.4673  
340.060 -.3688 -.3985

ALPHA ( 2 ) = -.314 BETA ( 2 ) = -.022 MACH = .59800 RN/L = 3.3843 PO = 2108.4 P = 1655.5

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3678 -.4170  
19.940 -.3571 -.4241  
39.905 -.4241 -.4535  
320.095 -.4213 -.5102  
340.060 -.3651 -.4237



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ARC11-0231A80 OTS(SRB=N\* ORB=N ) BOFLAP UP

(RECD06)

ALPHA ( 2 ) = -.396 BETA ( 3 ) = 3.997 MACH = .59800 RN/L = 3.7843 PO = 2108.4 P = 1655.5

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4041	-.4477
19.940	-.3781	-.4496
39.905	-.4220	-.4397
59.825	-.4498	-.5343
79.700	-.3912	-.4590

ALPHA ( 3 ) = 3.970 BETA ( 1 ) = -.022 MACH = .59820 RN/L = 3.3879 PO = 2107.7 P = 1654.7

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3653	-.4150
19.940	-.3643	-.4258
39.905	-.4177	-.4678
59.825	-.4061	-.4833
79.700	-.3652	-.4207

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ARC11-0231A80 OTS(SRB=N+ ORB=N ) BDFLAP UP

(RE4D07) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.930 BETA ( 1 ) = -.009 MACH = .89930 RN/L = 4.2036 PO = 2101.3 P = 1243.3

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3558 -.4061  
19.940 -.3507 -.4011  
39.905 -.3730 -.4051  
320.095 -.4209 -.4729  
340.060 -.3677 -.4207

ALPHA ( 2 ) = -.376 BETA ( 1 ) = -4.028 MACH = .90183 RN/L = 4.2093 PO = 2101.3 P = 1239.9

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4092 -.4375  
19.940 -.4036 -.4595  
39.905 -.4673 -.4884  
320.095 -.4334 -.4625  
340.060 -.4001 -.4338

ALPHA ( 2 ) = -.330 BETA ( 2 ) = -.012 MACH = .90183 RN/L = 4.2093 PO = 2101.3 P = 1239.9

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3523 -.3957  
19.940 -.3423 -.3916  
39.905 -.3806 -.4031  
320.095 -.4083 -.4726  
340.060 -.3514 -.4037

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ARC11-0231A80 OTS(SRB=N\* ORB=N ) BDFLAP UP

(RE4007)

ALPHA ( 2 ) = -.330 BETA ( 3 ) = 4.003 MACH = .90183 RN/L = 4.2093 PO = 2101.3 P = 1239.9

SECTION ( 11BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4250	-.4728
19.940	-.4107	-.4628
39.905	-.4363	-.4645
320.095	-.4868	-.5381
340.060	-.4222	-.4814

ALPHA ( 3 ) = 3.927 BETA ( 1 ) = -.016 MACH = .90100 RN/L = 4.2086 PO = 2101.3 P = 1241.0

SECTION ( 11BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3355	-.3757
19.940	-.3327	-.3769
39.905	-.3676	-.3969
320.095	-.3795	-.4406
340.060	-.3458	-.3854

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ARC11-0231A80 OTS(SRB=N+ ORB=N )

BDFLAP UP

(RE4D08) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.907 BETA ( 1 ) = .000 MACH = 1.0989 RN/L = 4.3130 PO = 2107.0 P = 988.16

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3902 -.4437  
19.940 -.3755 -.4380  
39.905 -.3983 -.4279  
320.095 -.4275 -.4735  
340.060 -.3872 -.4284

ALPHA ( 2 ) = -.515 BETA ( 1 ) = -4.003 MACH = 1.1012 RN/L = 4.3135 PO = 2106.7 P = 985.16

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4394 -.5034  
19.940 -.4225 -.4690  
39.905 -.5155 -.5259  
320.095 -.4801 -.5156  
340.060 -.4421 -.5006

ALPHA ( 2 ) = -.525 BETA ( 2 ) = .003 MACH = 1.1012 RN/L = 4.3135 PO = 2106.7 P = 985.16

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4012 -.4556  
19.940 -.3866 -.4524  
39.905 -.4245 -.4724  
320.095 -.4394 -.4851  
340.060 -.3975 -.4446

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ARC11-0231A80 OTS(SRB=N+ ORB=N )

BDFLAP UP

(RE4D08)

ALPHA ( 2 ) = -.426 BETA ( 3 ) = 4.012 MACH = 1.1012 RN/L = 4.3135 PO = 2106.7 P = 985.16

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4476	-.5068
19.940	-.4397	-.4950
39.905	-.4589	-.4943
320.095	-.4750	-.5063
340.060	-.4352	-.4968

ALPHA ( 3 ) = 3.881 BETA ( 1 ) = .006 MACH = 1.1017 RN/L = 4.3151 PO = 2105.5 P = 984.01

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4376	-.4946
19.940	-.4282	-.4972
39.905	-.4767	-.5232
320.095	-.4681	-.5251
340.060	-.4309	-.4755

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TABULATED SOURCE DATA - 1A80  
ARC11-0231A80 OTS(SRB=N+ ORB=N ) BDFLAP UP

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(RE4D09) ( 13 JAN 75 )

# REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

# PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.897 BETA ( 1 ) = .006 MACH = 1.2489 RN/L = 4.4001 PO = 2111.9 P = 816.48

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2694 -.3008  
19.940 -.2579 -.2997  
39.905 -.2876 -.3073  
320.095 -.2803 -.3116  
340.060 -.2538 -.2855

ALPHA ( 2 ) = -.482 BETA ( 1 ) = -4.006 MACH = 1.2477 RN/L = 4.3993 PO = 2111.9 P = 817.80

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2971 -.3528  
19.940 -.3085 -.3388  
39.905 -.3991 -.3359  
320.095 -.3306 -.3744  
340.060 -.3053 -.3186

ALPHA ( 2 ) = -.519 BETA ( 2 ) = .003 MACH = 1.2477 RN/L = 4.3993 PO = 2111.9 P = 817.80

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2911 -.3407  
19.940 -.2821 -.3335  
39.905 -.3132 -.3541  
320.095 -.3256 -.3676  
340.060 -.2856 -.3344

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ARC11-0231A80 OTS(SRB=N+ ORB=N )

BDFLAP UP

(RE4D09)

ALPHA ( 2 ) = -.462 BETA ( 3 ) = 4.009 MACH = 1.2477 RN/L = 4.3993 PO = 2111.9 P = 817.80

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3229	-.3772
19.940	-.3089	-.3541
39.905	-.3275	-.3558
320.095	-.3432	-.3925
340.060	-.3021	-.3734

ALPHA ( 3 ) = 3.854 BETA ( 1 ) = .006 MACH = 1.2493 RN/L = 4.3962 PO = 2111.9 P = 816.04

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3135	-.3578
19.940	-.3064	-.3574
39.905	-.3439	-.3829
320.095	-.3640	-.4139
340.060	-.3001	-.3454

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ARC11-0231A80 OTS(SRB=N+ ORB=N )

BDFLAP UP

(RE4D10) ( 13 JAN 75 )

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.904 BETA ( 1 ) = -.006 MACH = 1.4001 RN/L = 4.2924 PO = 2119.7 P = 665.99

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2028 -.2325  
19.940 -.1971 -.2308  
39.905 -.2159 -.2368  
320.095 -.2176 -.2398  
340.060 -.1888 -.2238

ALPHA ( 2 ) = -.406 BETA ( 1 ) = -4.009 MACH = 1.4020 RN/L = 4.2945 PO = 2120.9 P = 664.59

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2271 -.2679  
19.940 -.2194 -.2541  
39.905 -.2425 -.2725  
320.095 -.2436 -.2737  
340.060 -.2297 -.2705

ALPHA ( 2 ) = -.370 BETA ( 2 ) = .000 MACH = 1.4020 RN/L = 4.2945 PO = 2120.9 P = 664.59

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2098 -.2452  
19.940 -.2041 -.2426  
39.905 -.2271 -.2559  
320.095 -.2167 -.2525  
340.060 -.1995 -.2412



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ARC11-0231A80 OTS:SRB=N+ ORB=N )

BDFLAP UP

(RE4D10)

ALPHA ( 2 ) = -.453 BETA ( 3 ) = 4.012 MACH = 1.4020 RN/L = 4.2945 PO = 2120.9 P = 664.59

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2285	-.2645
19.940	-.2186	-.2509
39.905	-.2378	-.2554
320.095	-.2272	-.2732
340.060	-.2071	-.2640

ALPHA ( 3 ) = 3.944 BETA ( 1 ) = -.006 MACH = 1.3972 RN/L = 4.2925 PO = 2121.1 P = 669.17

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2113	-.2513
19.940	-.2047	-.2490
39.905	-.2838	-.2742
320.095	-.2210	-.2734
340.060	-.2023	-.2444

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ARC11-0231A80 OTS(SRB=N ORB=N+ )

BDFLAP UP

(RE4D11) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2620.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.957 BETA ( 1 ) = -.016 MACH = .59560 RN/L = 3.3845 PO = 2105.5 P = 1656.4

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3725 -.4324  
19.940 -.3671 -.4302  
39.905 -.4336 -.4783  
320.095 -.4585 -.5456  
340.060 -.3678 -.4369

ALPHA ( 2 ) = -.337 BETA ( 1 ) = -4.041 MACH = .59810 RN/L = 3.3979 PO = 2105.7 P = 1653.4

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3890 -.4329  
19.940 -.3876 -.4549  
39.905 -.5150 -.5430  
320.095 -.4312 -.4692  
340.060 -.3725 -.4095

ALPHA ( 2 ) = -.383 BETA ( 2 ) = -.022 MACH = .59810 RN/L = 3.3979 PO = 2105.7 P = 1653.4

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3618 -.4175  
19.940 -.3537 -.4277  
39.905 -.4227 -.4754  
320.095 -.4220 -.5170  
340.060 -.3575 -.4244

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ARC11-0231A80 OTS(SRB=N ORB=N\*) BDFLAP UP (RE4D11)

ALPHA ( 2 ) = -.400 BETA ( 3 ) = 3.997 MACH = .59810 RN/L = 3.3979 PO = 2105.7 P = 1653.4

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3801	-.4373
19.940	-.3531	-.4436
39.905	-.4069	-.4258
320.095	-.4510	-.5216
340.060	-.3831	-.4445

ALPHA ( 3 ) = 4.125 BETA ( 1 ) = -.025 MACH = .59930 RN/L = 3.4056 PO = 2106.2 P = 1652.2

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3620	-.4114
19.940	-.3597	-.4240
39.905	-.4198	-.4716
320.095	-.3955	-.4811
340.060	-.3522	-.4176

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ARC11-0231A80 OTS(SRB=N ORR=N+ )

BDFLAP UP

(RE4012) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP =  
LREF = 1290.3000 IN. YMRP =  
BREF = 1290.3000 IN. ZMRP =  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -4.062 BETA ( 1 ) = -.012 MACH = .89970

RN/L = 4.2040 PO = 2099.9 P = 1242.0

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3759 -.4381  
19.940 -.3573 -.4299  
39.905 -.4022 -.4323  
320.095 -.4662 -.5166  
340.060 -.3954 -.4541

ALPHA ( 2 ) = -.383 BETA ( 1 ) = -4.028 MACH = .90127

RN/L = 4.2082 PO = 2100.1 P = 1240.0

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4370 -.4923  
19.940 -.4174 -.4876  
39.905 -.5096 -.5125  
320.095 -.4913 -.5425  
340.060 -.4391 -.4777

ALPHA ( 2 ) = -.383 BETA ( 2 ) = -.016 MACH = .90127

RN/L = 4.2082 PO = 2100.1 P = 1240.0

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3498 -.4003  
19.940 -.3437 -.3993  
39.905 -.4088 -.4280  
320.095 -.4620 -.5141  
340.060 -.3540 -.4112

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ARC11-0231A80 GTS(SRB=N ORB=N+ )

BDFLAP UP

(RE4D12)

ALPHA ( 2 ) = -.453 BETA ( 3 ) = 4.000 MACH = .90127 RN/L = 4.2082 PO = 2100.1 P = 1240.0

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4529	-.4989
19.940	-.4352	-.4847
39.905	-.4757	-.5104
320.095	-.5225	-.5707
340.060	-.4398	-.5068

ALPHA ( 3 ) = 3.947 BETA ( 1 ) = -.012 MACH = .90020 RN/L = 4.1982 PO = 2099.2 P = 1240.0

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3453	-.4071
19.940	-.3395	-.3989
39.905	-.3944	-.4169
320.095	-.4180	-.4763
340.060	-.3560	-.4161

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ARC11-0231A80 OTS(SRB=N ORB=N+ )

BDFLAP UP

(RE4013) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.950 BETA ( 1 ) = .006 MACH = 1.0974 RN/L = 4.3157 PO = 2105.5 P = 989.31

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4090 -.4452  
19.940 -.4002 -.4484  
39.905 -.4117 -.4471  
320.095 -.4261 -.4632  
340.060 -.4021 -.4378

ALPHA ( 2 ) = -.509 BETA ( 1 ) = -4.066 MACH = 1.1004 RN/L = 4.3182 PO = 2105.5 P = 985.62

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4506 -.5011  
19.940 -.4321 -.4764  
39.905 -.4836 -.5068  
320.095 -.4743 -.5030  
340.060 -.4518 -.4933

ALPHA ( 2 ) = -.552 BETA ( 2 ) = -.056 MACH = 1.1004 RN/L = 4.3182 PO = 2105.5 P = 985.62

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4172 -.4622  
19.940 -.4092 -.4634  
39.905 -.4239 -.4632  
320.095 -.4364 -.4705  
340.060 -.4087 -.4527

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ARC11-0231A80 OTS(SRB=N ORB=N+ )

BDFLAP UP

(RE4D13)

ALPHA ( 2 ) = -.486 BETA ( 3 ) = 3.950 MACH = 1.1004 RN/L = 4.3182 PO = 2105.5 P = 985.62

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4531	-.5018
19.940	-.4432	-.4860
39.905	-.4558	-.4797
59.870	-.4621	-.4921
79.835	-.4390	-.4979

ALPHA ( 3 ) = 4.029 BETA ( 1 ) = -.069 MACH = 1.1030 RN/L = 4.3205 PO = 2104.8 P = 982.12

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4471	-.4940
19.940	-.4465	-.4978
39.905	-.4600	-.4997
59.870	-.4735	-.5086
79.835	-.4385	-.4815

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ARC11-0231A80 OTS(SRB=N ORB=N+) BDFLAP UP

(RE4D14) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.963 BETA ( 1 ) = .006 MACH = 1.2512 RN/L = 4.3841 PO = 2109.1 P = 812.89

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2873 -.3173  
19.940 -.2814 -.3176  
39.905 -.2987 -.3282  
320.095 -.3003 -.3325  
340.060 -.2764 -.3105

ALPHA ( 2 ) = -.492 BETA ( 1 ) = -4.006 MACH = 1.2479 RN/L = 4.3874 PO = 2110.0 P = 816.96

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3154 -.3563  
19.940 -.3084 -.3403  
39.905 -.3579 -.3760  
320.095 -.3427 -.3721  
340.060 -.3138 -.3546

ALPHA ( 2 ) = -.466 BETA ( 2 ) = .003 MACH = 1.2479 RN/L = 4.3874 PO = 2110.0 P = 816.96

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3049 -.3433  
19.940 -.2989 -.3419  
39.905 -.3162 -.3531  
320.095 -.3283 -.3670  
340.060 -.3012 -.3465



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ARC11-0231A80 OTS(SRB=N ORB=N+ ) BDFLAP UP (RE4D14)

ALPHA ( 2 ) = -.522 BETA ( 3 ) = 4.009 MACH = 1.2479 RN/L = 4.3874 PO = 2110.0 P = 816.96

SECTION ( 11BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3332	-.3713
19.940	-.3201	-.3552
39.905	-.3311	-.3501
320.095	-.3297	-.3752
340.060	-.3137	-.3747

ALPHA ( 3 ) = 3.996 BETA ( 1 ) = .000 MACH = 1.2453 RN/L = 4.3815 PO = 2109.8 P = 819.58

SECTION ( 11BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3213	-.3600
19.940	-.3187	-.3587
39.905	-.3374	-.3731
320.095	-.3583	-.3970
340.060	-.3143	-.3576

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ARC11-0231A80 OTS(SRB=N ORB=N+) BDFLAP UP

(RE4D15) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.910 BETA ( 1 ) = -.006 MACH = 1.4040 RN/L = 4.2694 PO = 2117.6 P = 661.67

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2212 -.2448  
19.940 -.2143 -.2448  
39.905 -.2273 -.2474  
320.095 -.2332 -.2521  
340.060 -.2136 -.2407

ALPHA ( 2 ) = -.409 BETA ( 1 ) = -4.009 MACH = 1.4005 RN/L = 4.2782 PO = 2119.0 P = 665.37

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2389 -.2699  
19.940 -.2297 -.2630  
39.905 -.2399 -.2566  
320.095 -.2448 -.2724  
340.060 -.2327 -.2660

ALPHA ( 2 ) = -.446 BETA ( 2 ) = .000 MACH = 1.4005 RN/L = 4.2782 PO = 2119.0 P = 665.37

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2256 -.2535  
19.940 -.2230 -.2511  
39.905 -.2334 -.2532  
320.095 -.2256 -.2556  
340.060 -.2158 -.2495

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ARC11-0231A80 OTS(SRB=N ORB=N+) BDFLAP UP (RE4D15)

ALPHA ( 2 ) = -.509 BETA ( 3 ) = 4.009 MACH = 1.4005 RN/L = 4.2782 PO = 2119.0 P = 665.37

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2388	-.2717
19.940	-.2313	-.2579
39.905	-.2463	-.2580
320.095	-.2319	-.2733
340.060	-.2205	-.2721

ALPHA ( 3 ) = 3.848 BETA ( 1 ) = -.006 MACH = 1.4000 RN/L = 4.2776 PO = 2121.1 P = 666.55

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2232	-.2520
19.940	-.2200	-.2543
39.905	-.2407	-.2888
320.095	-.2216	-.2816
340.060	-.2164	-.2478

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ARC11-0231A80 OTS(SRB=N ORB=N- )

BDFLAP UP

(RE4D16) ( 13 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.986 BETA ( 1 ) = -.012 MACH = .90160 RN/L = 4.2050 PO = 2099.2 P = 1239.1

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3536 -.4114  
19.940 -.3456 -.3994  
39.905 -.3722 -.4044  
320.095 -.4144 -.4724  
340.060 -.3678 -.4188

ALPHA ( 2 ) = -.350 BETA ( 1 ) = -4.031 MACH = .90357 RN/L = 4.2104 PO = 2098.7 P = 1235.1

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4093 -.4526  
19.940 -.4017 -.4556  
39.905 -.4363 -.4659  
320.095 -.4261 -.4491  
340.060 -.4202 -.4379

ALPHA ( 2 ) = -.301 BETA ( 2 ) = -.016 MACH = .90357 RN/L = 4.2104 PO = 2098.7 P = 1236.1

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3264 -.3634  
19.940 -.3231 -.3761  
39.905 -.3751 -.4038  
320.095 -.4067 -.4608  
340.060 -.3340 -.3806

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ARC11-0231A80 OTS(SRB=N ORB=N- )

BDFLAP UP

(RE4D16)

ALPHA ( 2 ) = -.317 BETA ( 3 ) = 4.000 MACH = .90357 RN/L = 4.2104 PO = 2098.7 P = 1236.1

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4184	-.4680
19.940	-.4061	-.4560
39.905	-.4137	-.4507
320.095	-.4767	-.5204
340.060	-.4127	-.4660

ALPHA ( 3 ) = 3.947 BETA ( 1 ) = -.019 MACH = .90070 RN/L = 4.2030 PO = 2098.5 P = 1239.8

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3206	-.3655
19.940	-.3276	-.3661
39.905	-.3552	-.3849
320.095	-.3672	-.4195
340.060	-.3280	-.3799

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ARC11-0231A80 OTS(SRB=N ORB=N- ) BDFLAP UP

(RE4D17) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -4.020 BETA ( 1 ) = -.069 MACH = 1.0966 RN/L = 4.3161 PO = 2104.8 P = 990.02

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4402 -.4802  
19.940 -.4233 -.4878  
39.905 -.4384 -.4729  
320.095 -.4684 -.5025  
340.060 -.4324 -.4680

ALPHA ( 2 ) = -.479 BETA ( 1 ) = -4.069 MACH = 1.1010 RN/L = 4.3147 PO = 2104.3 P = 984.44

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4767 -.5297  
19.940 -.4624 -.5073  
39.905 -.5329 -.5513  
320.095 -.5071 -.5358  
340.060 -.4766 -.5211

ALPHA ( 2 ) = -.469 BETA ( 2 ) = -.055 MACH = 1.1010 RN/L = 4.3147 PO = 2104.3 P = 984.44

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4442 -.4879  
19.940 -.4321 -.4929  
39.905 -.4545 -.5070  
320.095 -.4644 -.5059  
340.060 -.4368 -.4749

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ARC11-0231A80 OTS(SRB=N ORB=N- ) BDFLAP UP

(RE4D17)

ALPHA ( 2 ) = -.486 BETA ( 3 ) = 3.947 MACH = 1.1010 RN/L = 4.3147 PO = 2104.3 P = 984.44

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4853 -.5316  
19.940 -.4769 -.5237  
39.905 -.4844 -.5193  
320.095 -.5172 -.5302  
340.060 -.4725 -.5194

ALPHA ( 3 ) = 3.983 BETA ( 1 ) = -.063 MACH = 1.1056 RN/L = 4.3164 PO = 2104.1 P = 978.63

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4705 -.5170  
19.940 -.4628 -.5249  
39.905 -.5140 -.5497  
320.095 -.4972 -.5419  
340.060 -.4801 -.4999

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ARC11-0231A80 OTS(SRB=N ORB=N- )

BDFLAP UP

(RE4018) ( 13 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.953 BETA ( 1 ) = .000 MACH = 1.2490 RN/L = 4.3771 PO = 2108.4 P = 815.07

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3275 -.3618  
19.940 -.3146 -.3595  
39.905 -.3519 -.3596  
320.095 -.3486 -.3830  
340.060 -.3171 -.3492

ALPHA ( 2 ) = -.429 BETA ( 1 ) = -4.006 MACH = 1.2479 RN/L = 4.3753 PO = 2108.4 P = 816.19

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3451 -.3908  
19.940 -.3418 -.3753  
39.905 -.4263 -.4472  
320.095 -.3833 -.4211  
340.060 -.3465 -.3914

ALPHA ( 2 ) = -.423 BETA ( 2 ) = .003 MACH = 1.2479 RN/L = 4.3753 PO = 2108.4 P = 816.19

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3390 -.3831  
19.940 -.3320 -.3870  
39.905 -.3685 -.4019  
320.095 -.3861 -.4310  
340.060 -.3317 -.3696



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ARC11-0231A80 OTS(SRB=N ORB=N- )

BDFLAP UP

(RE4D18)

ALPHA ( 2 ) = -.416 BETA ( 3 ) = 4.009 MACH = 1.2479 RN/L = 4.3753 PO = 2108.4 P = 816.19

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3713	-.4206
19.940	-.3592	-.4001
39.905	-.3701	-.4019
320.095	-.3879	-.4326
340.060	-.3611	-.4188

ALPHA ( 3 ) = 3.993 BETA ( 1 ) = .003 MACH = 1.2456 RN/L = 4.3674 PO = 2108.4 P = 818.72

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3638	-.4041
19.940	-.3577	-.4100
39.905	-.3968	-.4346
320.095	-.4186	-.4605
340.060	-.3477	-.3806

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ARC11-0231A80 OTS(SRB=N ORB=N- )

BDFLAP UP

(RE4D19) ( 14 JAN 75 )

# REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

# PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.848 BETA ( 1 ) = -.006 MACH = 1.4069 RN/L = 4.2698 PO = 2120.4 P = 659.90

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2546 -.2822  
19.940 -.2483 -.2853  
39.905 -.2625 -.2862  
320.095 -.2768 -.2963  
340.060 -.2445 -.2692

ALPHA ( 2 ) = -.357 BETA ( 1 ) = -4.009 MACH = 1.4043 RN/L = 4.2657 PO = 2120.4 P = 662.32

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2851 -.3156  
19.940 -.2673 -.3053  
39.905 -.2811 -.3007  
320.095 -.2889 -.3210  
340.060 -.2761 -.3116

ALPHA ( 2 ) = -.363 BETA ( 2 ) = .000 MACH = 1.4043 RN/L = 4.2657 PO = 2120.4 P = 662.32

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2650 -.2952  
19.940 -.2614 -.2997  
39.905 -.2797 -.3125  
320.095 -.2670 -.2949  
340.060 -.2549 -.2832

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ARC11-0231A80 QTS(SRB=N ORB=N- ) BDFLAP UP (RE4D19)

ALPHA ( 2 ) = -.462 BETA ( 3 ) = +.012 MACH = 1.4043 RN/L = 4.2657 PO = 2120.4 P = 662.32

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2837 -.3167  
19.940 -.2695 -.3026  
39.905 -.2850 -.3060  
320.095 -.2781 -.3121  
340.060 -.2668 -.3146

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = -.003 MACH = 1.4018 RN/L = 4.2745 PO = 2122.5 P = 665.25

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2680 -.3011  
19.940 -.2630 -.3058  
39.905 -.3150 -.3408  
320.095 -.2730 -.3061  
340.060 -.2614 -.2910

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N OPB=N ) BDFLAP UP

(RE4020) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RV/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.868 BETA ( 1 ) = -.016 MACH = .59200 RN/L = 3.3619 PO = 2105.5 P = 1661.0

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3861 -.4380  
19.940 -.3724 -.4325  
39.905 -.4440 -.4828  
320.095 -.4555 -.5377  
340.060 -.3844 -.4397

ALPHA ( 2 ) = -.327 BETA ( 1 ) = -4.038 MACH = .59820 RN/L = 3.3862 PO = 2105.3 P = 1652.9

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3734 -.4146  
19.940 -.3772 -.4375  
39.905 -.4935 -.5040  
320.095 -.4370 -.4671  
340.060 -.3589 -.3833

ALPHA ( 2 ) = -.291 BETA ( 2 ) = -.022 MACH = .59820 RN/L = 3.3862 PO = 2105.3 P = 1652.9

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3724 -.4317  
19.940 -.3642 -.4266  
39.905 -.4147 -.4627  
320.095 -.4170 -.5014  
340.060 -.3782 -.4382

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TABULATED SOLUTION DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) BOFLAP UP

(RE4D20)

ALPHA ( 2 ) = -.386 BETA ( 3 ) = 3.994 MACH = .59820 RN/L = 3.3862 PO = 2105.3 P = 1652.9

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3743	-.4203
19.940	-.3593	-.4285
39.905	-.4067	-.4111
320.095	-.4257	-.5101
340.060	-.3658	-.4237

ALPHA ( 3 ) = 4.016 BETA ( 1 ) = -.022 MACH = .60330 RN/L = 3.4092 PO = 2105.5 P = 1645.4

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3552	-.4040
19.940	-.3595	-.4131
39.905	-.4036	-.4541
320.095	-.3868	-.4822
340.060	-.3559	-.4030

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP UP

(RE4D21) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.977 BETA ( 1 ) = -.016 MACH = .90170 RN/L = 4.2042 PO = 2099.2 P = 1238.9

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3573 -.4114  
19.940 -.3503 -.3988  
39.905 -.3770 -.4022  
320.095 -.4236 -.4781  
340.060 -.3682 -.4340

ALPHA ( 2 ) = -.327 BETA ( 1 ) = -4.028 MACH = .90323 RN/L = 4.2094 PO = 2099.4 P = 1237.0

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4083 -.4504  
19.940 -.4040 -.4616  
39.905 -.4583 -.4826  
320.095 -.4350 -.4560  
340.060 -.4015 -.4347

ALPHA ( 2 ) = -.317 BETA ( 2 ) = -.012 MACH = .90323 RN/L = 4.2094 PO = 2099.4 P = 1237.0

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3320 -.3868  
19.940 -.3362 -.3866  
39.905 -.3897 -.4139  
320.095 -.4326 -.4907  
340.060 -.3350 -.3934

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4021)

ALPHA ( 2 ) = -.350 BETA ( 3 ) = 4.000 MACH = .90323 RN/L = 4.2094 PO = 2099.4 P = 1237.0

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4281	-.4686
19.940	-.4185	-.4600
39.905	-.4324	-.4670
320.095	-.4789	-.5409
340.060	-.4091	-.4694

ALPHA ( 3 ) = 3.977 BETA ( 1 ) = -.012 MACH = .90240 RN/L = 4.2041 PO = 2098.5 P = 1237.5

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3237	-.3759
19.940	-.3298	-.3754
39.905	-.3652	-.3989
320.095	-.3836	-.4498
340.060	-.3346	-.3875

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4022) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-CB = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.937 BETA ( 1 ) = -.063 MACH = 1.0978 RN/L = 4.3175 PO = 2104.8 P = 988.46

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4299 -.4762  
19.940 -.4158 -.4767  
39.905 -.4351 -.4712  
320.095 -.4608 -.4995  
340.060 -.4265 -.4646

ALPHA ( 2 ) = -.525 BETA ( 1 ) = -4.069 MACH = 1.1008 RN/L = 4.3153 PO = 2104.6 P = 984.73

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4717 -.5283  
19.940 -.4561 -.5023  
39.905 -.5253 -.5477  
320.095 -.5063 -.5395  
340.060 -.4732 -.5203

ALPHA ( 2 ) = -.439 BETA ( 2 ) = -.056 MACH = 1.1008 RN/L = 4.3153 PO = 2104.6 P = 984.73

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4370 -.4876  
19.940 -.4291 -.4895  
39.905 -.4556 -.4990  
320.095 -.4625 -.5049  
340.060 -.4313 -.4724



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ARC11-0231A80 OTS(SRB=N ORB=N )

BUFLAP UP

(RE4022)

ALPHA ( 2 ) = -.482 BETA ( 3 ) = 3.950 MACH = 1.1008 RN/L = 4.3153 PO = 2104.6 P = 984.73

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4770	-.5286
19.940	-.4703	-.5174
39.905	-.4800	-.5135
320.095	-.5036	-.5248
340.060	-.4640	-.5216

ALPHA ( 3 ) = 3.963 BETA ( 1 ) = -.063 MACH = 1.1046 RN/L = 4.3189 PO = 2104.1 P = 979.83

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4632	-.5215
19.940	-.4659	-.5243
39.905	-.4946	-.5440
320.095	-.4969	-.5405
340.060	-.4571	-.4990

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP UP

(RE4023) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-09 = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.917 BETA ( 1 ) = .003 MACH = 1.2460 RN/L = 4.3726 PO = 2108.4 P = 816.30

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3120 -.3424  
19.940 -.3034 -.3438  
39.905 -.3281 -.3505  
320.095 -.3267 -.3627  
340.060 -.3040 -.3430

ALPHA ( 2 ) = -.446 BETA ( 1 ) = -4.006 MACH = 1.2483 RN/L = 4.3668 PO = 2108.9 P = 816.03

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3332 -.3753  
19.940 -.3242 -.3611  
39.905 -.3924 -.4151  
320.095 -.3656 -.3996  
340.060 -.3332 -.3770

ALPHA ( 2 ) = -.456 BETA ( 2 ) = .003 MACH = 1.2483 RN/L = 4.3668 PO = 2108.9 P = 816.03

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3258 -.3655  
19.940 -.3195 -.3668  
39.905 -.3419 -.3801  
320.095 -.3588 -.4026  
340.060 -.3180 -.3514

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP (RE4D23)

ALPHA ( 2 ) = -.439 BETA ( 3 ) = 4.012 MACH = 1.2483 RN/L = 4.3668 PO = 2108.9 P = 816.03

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3534	-.3994
19.940	-.3423	-.3780
39.905	-.3527	-.3760
320.095	-.3653	-.4129
340.060	-.3391	-.3970

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = .000 MACH = 1.2455 RN/L = 4.3668 PO = 2109.1 P = 819.16

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3468	-.3867
19.940	-.3414	-.3881
39.905	-.3665	-.4060
320.095	-.3860	-.4313
340.060	-.3335	-.3795

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 DTS(SRB=N ORB=N )

BDFLAP UP

(RE4D24) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.884 BETA ( 1 ) = -.003 MACH = 1.4001 RN/L = 4.2484 PO = 2114.0 P = 664.19

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2398 -.2674  
19.940 -.2313 -.2673  
39.905 -.2438 -.2696  
320.095 -.2518 -.2771  
340.060 -.2331 -.2595

ALPHA ( 2 ) = -.370 BETA ( 1 ) = -4.009 MACH = 1.3999 RN/L = 4.2511 PO = 2113.8 P = 664.35

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2606 -.2885  
19.940 -.2473 -.2760  
39.905 -.2710 -.2938  
320.095 -.2749 -.2990  
340.060 -.2535 -.2924

ALPHA ( 2 ) = -.370 BETA ( 2 ) = .000 MACH = 1.3999 RN/L = 4.2511 PO = 2113.8 P = 664.35

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2493 -.2766  
19.940 -.2427 -.2755  
39.905 -.2546 -.2831  
320.095 -.2496 -.2798  
340.060 -.2376 -.2703

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP (RE4024)

ALPHA ( 2 ) = - .429 BETA ( 3 ) = 4.012 MACH = 1.3999 RN/L = 4.2511 PO = 2113.8 P = 664.35

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2638	-.2966
19.940	-.2549	-.2842
39.905	-.2677	-.2889
320.095	-.2581	-.2979
340.060	-.2467	-.2945

ALPHA ( 3 ) = 3.894 BETA ( 1 ) = .000 MACH = 1.3947 RN/L = 4.2558 PO = 2114.0 P = 669.27

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2495	-.2832
19.940	-.2451	-.2863
39.905	-.2800	-.3140
320.095	-.2531	-.2891
340.060	-.2435	-.2777

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ARC11-0231A80 OTS(SRB=N- ORB=N )

BDFLAP UP

(RE4D25) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -4.020 BETA ( 1 ) = -.063 MACH = 1.0964 RN/L = 4.3166 PO = 2104.1 P = 989.88

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4579 -.4966  
19.940 -.4466 -.5023  
39.905 -.4615 -.4979  
320.095 -.4832 -.5161  
340.060 -.4504 -.4826

ALPHA ( 2 ) = -.482 BETA ( 1 ) = -.069 MACH = 1.1000 RN/L = 4.3184 PO = 2103.9 P = 985.34

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4973 -.5457  
19.940 -.4788 -.5214  
39.905 -.5451 -.5623  
320.095 -.5244 -.5524  
340.060 -.4931 -.5393

ALPHA ( 2 ) = -.489 BETA ( 2 ) = -.059 MACH = 1.1000 RN/L = 4.3184 PO = 2103.9 P = 985.34

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4667 -.5089  
19.940 -.4545 -.5091  
39.905 -.4767 -.5179  
320.095 -.4825 -.5171  
340.060 -.4575 -.4915

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ARC11-0231A80 OTS(SRB=N- ORB=N )

BDFLAP UP

(RE4D25)

ALPHA ( 2 ) = -.453 BETA ( 3 ) = 3.950 MACH = 1.1000 RN/L = 4.3184 PO = 2103.9 P = 985.34

SECTION ( 118DFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4993	-.5460
19.940	-.4906	-.5354
39.905	-.4972	-.5292
320.095	-.5304	-.5419
340.060	-.4862	-.5359

ALPHA ( 3 ) = 4.029 BETA ( 1 ) = -.059 MACH = 1.1031 RN/L = 4.3201 PO = 2102.0 P = 980.74

SECTION ( 118DFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4917	-.5368
19.940	-.4894	-.5428
39.905	-.5124	-.5590
320.095	-.5239	-.5571
340.060	-.4774	-.5141

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ARC11-0231A80 OTS(SRB=N- ORB=N )

BDFLAP UP

(REND26) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.983 BETA ( 1 ) = .000 MACH = 1.2472 RN/L = 4.3616 PO = 2107.7 P = 816.70

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3337 -.3634  
19.940 -.3250 -.3637  
39.905 -.3506 -.3696  
320.095 -.3479 -.3816  
340.060 -.3336 -.3549

ALPHA ( 2 ) = -.443 BETA ( 1 ) = -4.006 MACH = 1.2481 RN/L = 4.3581 PO = 2107.7 P = 815.72

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3498 -.3862  
19.940 -.3509 -.3906  
39.905 -.4062 -.4296  
320.095 -.3810 -.4129  
340.060 -.3515 -.3844

ALPHA ( 2 ) = -.426 BETA ( 2 ) = .003 MACH = 1.2481 RN/L = 4.3581 PO = 2107.7 P = 815.72

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3420 -.3798  
19.940 -.3381 -.3793  
39.905 -.3615 -.3967  
320.095 -.3757 -.4144  
340.060 -.3362 -.3787



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ARC11-0231A80 OTS(SRB=N- ORB=N )

BOFLAP UP

(RE4026)

ALPHA ( 2 ) = -.456 BETA ( 3 ) = 4.016 MACH = 1.2481 RN/L = 4.3581 PO = 2107.7 P = 815.72

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3678	-.4065
19.940	-.3554	-.3915
39.905	-.3659	-.3874
320.095	-.3767	-.4158
340.060	-.3550	-.4108

ALPHA ( 3 ) = 4.020 BETA ( 1 ) = -.003 MACH = 1.2443 RN/L = 4.3536 PO = 2107.0 P = 819.62

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3644	-.4007
19.940	-.3592	-.4028
39.905	-.3789	-.4136
320.095	-.4018	-.4348
340.060	-.3496	-.3879

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ARC11-0231A80 OTS(SRB=N- ORB=N )

BDFLAP UP

(RE4D27) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.805 BETA ( 1 ) = .000 MACH = 1.4005 RN/L = 4.2336 PO = 2109.8 P = 662.52

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2634 -.2849  
19.940 -.2614 -.2877  
39.905 -.2713 -.2915  
320.095 -.2799 -.2914  
340.060 -.2545 -.2811

ALPHA ( 2 ) = -.353 BETA ( 1 ) = -4.006 MACH = 1.3984 RN/L = 4.2397 PO = 2110.7 P = 664.83

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2861 -.3098  
19.940 -.2749 -.3049  
39.905 -.2791 -.2997  
320.095 -.2959 -.3207  
340.060 -.2781 -.3119

ALPHA ( 2 ) = -.367 BETA ( 2 ) = .000 MACH = 1.3984 RN/L = 4.2397 PO = 2110.7 P = 664.83

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2690 -.2929  
19.940 -.2628 -.2928  
39.905 -.2702 -.2965  
320.095 -.2664 -.2909  
340.060 -.2581 -.2839

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ARC11-0231A80 OTS(SRB=N- ORB=N ) BDFLAP UP

(RE4D27)

ALPHA ( 2 ) = -.400 BETA ( 3 ) = 4.012 MACH = 1.3984 RN/L = 4.2397 PO = 2110.7 P = 664.83

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2801	-.3070
19.940	-.2720	-.2989
39.905	-.2856	-.3025
320.095	-.2768	-.3100
340.060	-.2712	-.3148

ALPHA ( 3 ) = 3.983 BETA ( 1 ) = .000 MACH = 1.3983 RN/L = 4.2365 PO = 2109.8 P = 664.56

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2708	-.2941
19.940	-.2645	-.3013
39.905	-.2851	-.3218
320.095	-.2708	-.2972
340.060	-.2565	-.2847

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D28) ( 14 JAN 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
 LREF = 1290.3000 IN. YMRP = .0000 IN.  
 BREF = 1290.3000 IN. ZMRP = .0000 IN.  
 SCALE = .0200

## PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
 RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -4.000 BETA ( 1 ) = -.016 MACH = .59820 RN/L = 3.3864 PO = 2123.2 P = 1666.9

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
 .000 -.2139 -.2152  
 19.940 -.2149 -.2162  
 39.905 -.2132 -.2213  
 320.095 -.2129 -.2132  
 340.060 -.2159 -.2183

ALPHA ( 2 ) = -.264 BETA ( 1 ) = -4.034 MACH = .59700 RN/L = 3.3816 PO = 2123.7 P = 1668.9

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
 .000 -.2151 -.2239  
 19.940 -.2165 -.2300  
 39.905 -.2202 -.2284  
 320.095 -.2180 -.2217  
 340.060 -.2206 -.2219

ALPHA ( 2 ) = -.261 BETA ( 2 ) = -.019 MACH = .59700 RN/L = 3.3816 PO = 2123.7 P = 1668.9

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
 .000 -.1998 -.2069  
 19.940 -.2033 -.2083  
 39.905 -.2053 -.2087  
 320.095 -.2028 -.2052  
 340.060 -.2025 -.2052

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ARC11-0231A80 QTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D28)

ALPHA ( 2 ) = -.274 BETA ( 3 ) = 3.991 MACH = .59700 RN/L = 3.3816 PO = 2123.7 P = 1668.9

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2071	-.2115
19.940	-.2132	-.2169
39.905	-.2115	-.2139
320.095	-.2129	-.2153
340.060	-.2078	-.2132

ALPHA ( 3 ) = 4.013 BETA ( 1 ) = -.019 MACH = .59700 RN/L = 3.3862 PO = 2124.6 P = 1669.6

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1970	-.2001
19.940	-.1980	-.2011
39.905	-.2007	-.2065
320.095	-.1989	-.1975
340.060	-.1947	-.1950

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D29) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.980 BETA ( 1 ) = -.006 MACH = .90100 RN/L = 4.2493 PO = 2121.1 P = 1252.7

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2402 -.2444  
19.940 -.2390 -.2474  
39.905 -.2375 -.2447  
320.095 -.2444 -.2494  
340.060 -.2412 -.2463

ALPHA ( 2 ) = -.320 BETA ( 1 ) = -4.022 MACH = .90373 RN/L = 4.2509 PO = 2123.0 P = 1250.2

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2587 -.2664  
19.940 -.2570 -.2610  
39.905 -.2549 -.2650  
320.095 -.2551 -.2661  
340.060 -.2726 -.2726

ALPHA ( 2 ) = -.310 BETA ( 2 ) = -.009 MACH = .90373 RN/L = 4.2509 PO = 2123.0 P = 1250.2

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2205 -.2252  
19.940 -.2266 -.2268  
39.905 -.2362 -.2358  
320.095 -.2410 -.2391  
340.060 -.2213 -.2236

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ARC11-0231A80 OTS(SRB-OFF ORB-OFF)

BDFLAP UP

(RE4029)

ALPHA ( 2 ) = -.297 BETA ( 3 ) = 4.006 MACH = .90373 RN/L = 4.2509 PO = 2123.0 P = 1250.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.0	-.2581	-.2643
19.940	-.2605	-.2610
39.905	-.2529	-.2569
320.095	-.2597	-.2631
340.060	-.2641	-.2706

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = -.009 MACH = .89810 RN/L = 4.2418 PO = 2119.7 P = 1255.9

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2170	-.2315
19.940	-.2248	-.2260
39.905	-.2201	-.2260
320.095	-.2248	-.2283
340.060	-.2199	-.2304

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D30) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LPEF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -4.016 BETA ( 1 ) = -.003 MACH = 1.0992 RN/L = 4.3334 PO = 2116.2 P = 992.05

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3442 -.3467  
19.940 -.3432 -.3504  
39.905 -.3442 -.3479  
320.095 -.3498 -.3508  
340.060 -.3442 -.3461

ALPHA ( 2 ) = -.370 BETA ( 1 ) = -4.006 MACH = 1.1030 RN/L = 4.2966 PO = 2115.2 P = 987.00

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3860 -.3904  
19.940 -.3894 -.3879  
39.905 -.3855 -.3894  
320.095 -.3920 -.3930  
340.060 -.3861 -.3894

ALPHA ( 2 ) = -.343 BETA ( 2 ) = .003 MACH = 1.1030 RN/L = 4.2966 PO = 2115.2 P = 987.00

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3367 -.3407  
19.940 -.3384 -.3437  
39.905 -.3366 -.3431  
320.095 -.3430 -.3428  
340.060 -.3376 -.3384



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ARC11-0231A80 OTS(SRB-OFF ORB-OFF)

BDFLAP UP

(RE4D30)

ALPHA ( 2 ) = -.370 BETA ( 3 ) = 4.009 MACH = 1.1030 RN/L = 4.2966 PO = 2115.2 P = 987.00

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3981	-.4016
19.940	-.3976	-.3998
39.905	-.3952	-.3950
320.095	-.4066	-.4084
340.060	-.4014	-.4038

ALPHA ( 3 ) = 3.894 BETA ( 1 ) = -.003 MACH = 1.1097 RN/L = 4.2923 PO = 2114.0 P = 978.29

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3638	-.3659
19.940	-.3638	-.3671
39.905	-.3621	-.3680
320.095	-.3690	-.3694
340.060	-.3621	-.3647

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ARC11-0231A80 OTS(SRB-OFF ORB-OFF)

60FLAP UP

(RE4031) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .050  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.970 BETA ( 1 ) = -.003 MACH = 1.2502 RN/L = 4.3628 PO = 2115.4 P = 816.45

SECTION ( 1 ) 60FLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2936 -.2980  
19.940 -.2939 -.2997  
39.905 -.2962 -.3009  
320.095 -.2996 -.3005  
340.060 -.2952 -.2964

ALPHA ( 2 ) = -.330 BETA ( 1 ) = -4.006 MACH = 1.2515 RN/L = 4.3608 PO = 2116.1 P = 815.32

SECTION ( 1 ) 60FLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3246 -.3264  
19.940 -.3261 -.3275  
39.905 -.3259 -.3294  
320.095 -.3294 -.3323  
340.060 -.3253 -.3288

ALPHA ( 2 ) = -.317 BETA ( 2 ) = .003 MACH = 1.2515 RN/L = 4.3608 PO = 2116.1 P = 815.32

SECTION ( 1 ) 60FLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2910 -.2947  
19.940 -.2900 -.2954  
39.905 -.2902 -.2961  
320.095 -.2965 -.2982  
340.060 -.2917 -.2924

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BOFLAP UP

(RE4031)

ALPHA ( 2 ) = -.370 BETA ( 3 ) = 4.012 MACH = 1.2515 RN/L = 4.3608 PO = 2116.1 P = 815.32

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3300 -.3341  
19.940 -.3281 -.3322  
39.905 -.3290 -.3312  
320.095 -.3365 -.3406  
340.060 -.3320 -.3360

ALPHA ( 3 ) = 3.950 BETA ( 1 ) = -.003 MACH = 1.2493 RN/L = 4.3586 PO = 2116.9 P = 818.02

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3252 -.3270  
19.940 -.3251 -.3268  
39.905 -.3249 -.3288  
320.095 -.3286 -.3327  
340.060 -.3277 -.3265

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BOFLAP UP

(RE4032) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
OREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -4.043 BETA ( 1 ) = .000 MACH = 1.4047 RN/L = 4.2434 PO = 2120.4 P = 661.94

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2677 -.2694  
19.940 -.2683 -.2711  
39.905 -.2686 -.2725  
320.095 -.2717 -.2770  
340.060 -.2692 -.2686

ALPHA ( 2 ) = -.195 BETA ( 1 ) = -4.012 MACH = 1.4028 RN/L = 4.2458 PO = 2120.4 P = 663.72

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2821 -.2835  
19.940 -.2835 -.2829  
39.905 -.2832 -.2841  
320.095 -.2873 -.2887  
340.060 -.2841 -.2844

ALPHA ( 2 ) = -.211 BETA ( 2 ) = .000 MACH = 1.4028 RN/L = 4.2458 PO = 2120.4 P = 663.72

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2582 -.2628  
19.940 -.2576 -.2611  
39.905 -.2599 -.2604  
320.095 -.2609 -.2617  
340.060 -.2532 -.2582

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4032)

ALPHA ( 2 ) = .083 BETA ( 3 ) = 4.006 MACH = 1.4028 RN/L = 4.2458 PO = 2120.4 P = 663.72

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2841	-.2865
19.940	-.2832	-.2841
39.905	-.2818	-.2832
320.095	-.2853	-.2868
340.060	-.2817	-.2849

ALPHA ( 3 ) = 4.082 BETA ( 1 ) = .000 MACH = 1.3983 RN/L = 4.2463 PO = 2120.4 P = 667.87

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2741	-.2756
19.940	-.2747	-.2762
39.905	-.2735	-.2765
320.095	-.2754	-.2785
340.060	-.2764	-.2739

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ARC11-0231A80 OTS(SRB=OFF CRB=OFF)

BOFLAP UP

(RE4D33) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-08 = .000  
RN/L = 1.750 MACH = .600

ALPHA ( 1 ) = -3.953 BETA ( 1 ) = -.003 MACH = .59560 RN/L = 1.7428 PO = 1060.9 P = 834.63

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2045 -.2079  
19.940 -.2059 -.2114  
39.905 -.2059 -.2107  
320.095 -.2033 -.2033  
340.060 -.2011 -.2038

ALPHA ( 2 ) = -.271 BETA ( 1 ) = -4.044 MACH = .59443 RN/L = 1.7407 PO = 1060.2 P = 834.82

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2266 -.2349  
19.940 -.2219 -.2314  
39.905 -.2192 -.2281  
320.095 -.2112 -.2229  
340.060 -.2321 -.2363

ALPHA ( 2 ) = -.284 BETA ( 2 ) = -.031 MACH = .59443 RN/L = 1.7407 PO = 1060.2 P = 834.82

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1854 -.1837  
19.940 -.1941 -.1941  
39.905 -.1960 -.1975  
320.095 -.1938 -.1932  
340.060 -.1833 -.1813

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BOFLAP UP

(RE4033)

ALPHA ( 2 ) = -3.43 BETA ( 3 ) 3.984 MACH = .59443 RN/L = 1.7407 PO = 1060.2 P = 834.82

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2202	-.2229
19.940	-.2154	-.2202
39.905	-.2078	-.2188
320.095	-.2093	-.2183
340.060	-.2229	-.2312

ALPHA ( 3 ) = 3.963 BETA ( 1 ) = -.003 MACH = .59300 RN/L = 1.7403 PO = 1060.2 P = 835.76

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2075	-.2089
19.940	-.2020	-.2096
39.905	-.1979	-.2096
320.095	-.1986	-.2048
340.060	-.2068	-.2130

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BOFLAP UP

(RE4D34) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 2.250 MACH = .900

ALPHA ( 1 ) = -3.947 BETA ( 1 ) = .000 MACH = .90000 RN/L = 2.1578 PO = 1061.6 P = 627.70

SECTION ( 1 ) BOFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2429 -.2453  
19.940 -.2409 -.2465  
39.905 -.2384 -.2483  
320.095 -.2425 -.2509  
340.060 -.2429 -.2451

ALPHA ( 2 ) = -.264 BETA ( 1 ) = -4.044 MACH = .90150 RN/L = 2.1576 PO = 1060.4 P = 625.98

SECTION ( 1 ) BOFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2645 -.2679  
19.940 -.2661 -.2689  
39.905 -.2686 -.2713  
320.095 -.2639 -.2713  
340.060 -.2715 -.2707

ALPHA ( 2 ) = -.271 BETA ( 2 ) = -.031 MACH = .90150 RN/L = 2.1576 PO = 1060.4 P = 625.98

SECTION ( 1 ) BOFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2385 -.2394  
19.940 -.2381 -.2401  
39.905 -.2424 -.2440  
320.095 -.2425 -.2434  
340.060 -.2406 -.2406

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BOFLAP UP

(RE4034)

ALPHA ( 2 ) = -.304 BETA ( 3 ) = 3.984 MACH = .90150 RN/L = 2.1576 PO = 1060.4 P = 625.98

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2489	-.2577
19.940	-.2525	-.2501
39.905	-.2429	-.2533
320.095	-.2461	-.2597
340.060	-.2513	-.2617

ALPHA ( 3 ) = 3.990 BETA ( 1 ) = -.003 MACH = .90350 RN/L = 2.1629 PO = 1061.6 P = 625.33

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2293	-.2297
19.940	-.2313	-.2341
39.905	-.2297	-.2313
320.095	-.2334	-.2361
340.060	-.2333	-.2333

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4035) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 2.250 MACH = 1.100

ALPHA ( 1 ) = -3.957 BETA ( 1 ) = .000 MACH = 1.0935 RN/L = 2.2424 PO = 1058.8 P = 499.91

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3707 -.3738  
19.940 -.3697 -.3755  
39.905 -.3684 -.3751  
320.095 -.3693 -.3727  
340.060 -.3711 -.3728

ALPHA ( 2 ) = -.225 BETA ( 1 ) = -4.009 MACH = 1.0961 RN/L = 2.2501 PO = 1061.4 P = 499.48

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4092 -.4125  
19.940 -.4105 -.4135  
39.905 -.4082 -.4122  
320.095 -.4104 -.4124  
340.060 -.4102 -.4115

ALPHA ( 2 ) = -.225 BETA ( 2 ) = .000 MACH = 1.0961 RN/L = 2.2501 PO = 1061.4 P = 499.48

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3701 -.3725  
19.940 -.3705 -.3752  
39.905 -.3688 -.3748  
320.095 -.3694 -.3707  
340.060 -.3705 -.3705

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D35)

ALPHA ( 2 ) = -.231 BETA ( 3 ) = 4.012 MACH = 1.0961 RN/L = 2.2501 PO = 1061.4 P = 499.48

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4242	-.4293
19.940	-.4252	-.4286
39.905	-.4208	-.4222
320.095	-.4272	-.4289
340.060	-.4279	-.4323

ALPHA ( 3 ) = 4.016 BETA ( 1 ) = -.003 MACH = 1.1017 RN/L = 2.2510 PO = 1060.9 P = 495.81

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3932	-.3969
19.940	-.3932	-.4002
39.905	-.3905	-.3972
320.095	-.3928	-.3971
340.060	-.3955	-.3945

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D36) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 2.250 MACH = 1.250

ALPHA ( 1 ) = -3.993 BETA ( 1 ) = .003 MACH = 1.2488 RN/L = 2.2675 PO = 1060.9 P = 410.21

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3059 -.3107  
19.940 -.3025 -.3119  
39.905 -.3041 -.3113  
320.095 -.3047 -.3081  
340.060 -.3063 -.3081

ALPHA ( 2 ) = -.145 BETA ( 1 ) = -4.003 MACH = 1.2488 RN/L = 2.2680 PO = 1060.9 P = 410.21

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3310 -.3333  
19.940 -.3336 -.3339  
39.905 -.3307 -.3355  
320.095 -.3304 -.3323  
340.060 -.3326 -.3339

ALPHA ( 2 ) = -.129 BETA ( 2 ) = .003 MACH = 1.2488 RN/L = 2.2680 PO = 1060.9 P = 410.21

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3019 -.3072  
19.940 -.3012 -.3094  
39.905 -.3003 -.3078  
320.095 -.3014 -.3043  
340.060 -.3028 -.3044

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ARC11-0231A80 OTS1SRB-OFF OPB-OFF1

BOFLAP UP

(RE4036)

ALPHA ( 2 ) = -.175 BETA ( 3 ) = 4.009 MACH = 1.2488 RN/L = 2.2680 PO = 1060.9 P = 410.21

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO LO 1.0230 1.0500

PHI  
 .000 -.3380 -.3411  
 19.940 -.3380 -.3415  
 39.905 -.3361 -.3393  
 320.035 -.3416 -.3444  
 340.060 -.3408 -.3433

ALPHA ( 3 ) = 4.072 BETA ( 1 ) = .003 MACH = 1.2496 RN/L = 2.2672 PO = 1060.9 P = 409.77

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO LO 1.0230 1.0500

PHI  
 .000 -.3325 -.3323  
 19.940 -.3304 -.3339  
 39.905 -.3285 -.3342  
 320.035 -.3301 -.3342  
 340.060 -.3317 -.3320

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ARC11-0231A80 OTS(SRB-OFF ORB-OFF)

BOFLAP UP

(HE4037) 1 IN JAN 75 1

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
 LREF = 1290.3000 IN. YMRP = .0000 IN.  
 BREF = 1290.3000 IN. ZMRP = .0000 IN.  
 SCALE = .0200

## PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
 RN/L = 2.250 MACH = 1.400

ALPHA ( 1 ) = -4.013 BETA ( 1 ) = .003 MACH = 1.3998 RN/L = 2.2349 PO = 1061.6 P = 333.70

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2759 -.2806  
 19.940 -.2760 -.2837  
 39.905 -.2792 -.2826  
 320.095 -.2781 -.2834  
 340.060 -.2800 -.2781

ALPHA ( 2 ) = -.241 BETA ( 1 ) = -4.006 MACH = 1.3997 RN/L = 2.2285 PO = 1060.0 P = 333.23

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2889 -.2923  
 19.940 -.2917 -.2886  
 39.905 -.2889 -.2892  
 320.095 -.2907 -.2919  
 340.060 -.2920 -.2929

ALPHA ( 2 ) = -.264 BETA ( 2 ) = .000 MACH = 1.3997 RN/L = 2.2285 PO = 1060.0 P = 333.23

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2714 -.2727  
 19.940 -.2704 -.2716  
 39.905 -.2637 -.2725  
 320.095 -.2637 -.2725  
 340.060 -.2633 -.2709

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ARC11-0231A80 OTS(SPB-OFF ORB-OFF)

BOFLAP UP

(REND37)

ALPHA ( 2 ) = -.267 BETA ( 3 ) = 4.009 MACH = 1.3937 RN/L = 2.2285 PO = 1060.0 P = 333.23

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2928	-.2953
19.940	-.2347	-.2347
39.905	-.2932	-.2956
320.095	-.2921	-.2943
340.060	-.2950	-.2940

ALPHA ( 3 ) = 4.010 BETA ( 1 ) = .003 MACH = 1.3956 RN/L = 2.2367 PO = 1060.2 P = 335.22

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2802	-.2911
19.940	-.2802	-.2826
39.905	-.2814	-.2839
320.095	-.2813	-.2835
340.060	-.2792	-.2795

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ARC11-0231A80 OTS(SRB=N ORB=N ) BOFLAP UP

(RE4038) 1 14 JAN 75 1

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 1.750 MACH = .600

ALPHA ( 1 ) = -3.980 BETA ( 1 ) = -.003 MACH = .59910 RN/L = 1.7583 PO = 1060.9 P = 832.35

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3807 -.4335  
19.940 -.3627 -.4302  
39.905 -.4233 -.4582  
320.095 -.4530 -.5124  
340.060 -.3726 -.4349

ALPHA ( 2 ) = -.314 BETA ( 1 ) = -.044 MACH = .59907 RN/L = 1.7686 PO = 1066.1 P = 836.42

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3689 -.4106  
19.940 -.3682 -.4268  
39.905 -.4639 -.4908  
320.095 -.4266 -.4542  
340.060 -.3560 -.3911

ALPHA ( 2 ) = -.317 BETA ( 2 ) = -.009 MACH = .59907 RN/L = 1.7686 PO = 1066.1 P = 836.42

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3677 -.4131  
19.940 -.3516 -.4131  
39.905 -.4138 -.4495  
320.095 -.4149 -.4945  
340.060 -.3596 -.4178

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4038)

ALPHA ( 2 ) = -.327 BETA ( 3 ) = 3.981 MACH = .59907 RN/L = 1.7686 PO = 1066.1 P = 836.42

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3702 -.4265  
19.940 -.3517 -.4193  
39.905 -.3999 -.4200  
320.095 -.4234 -.5084  
340.060 -.3788 -.4436

ALPHA ( 3 ) = 3.950 BETA ( 1 ) = -.003 MACH = .60350 RN/L = 1.7801 PO = 1066.6 P = 833.90

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3492 -.3945  
19.940 -.3532 -.4098  
39.905 -.3998 -.4398  
320.095 -.3892 -.4679  
340.060 -.3459 -.3945

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP UP

(RE4039) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV = .000 ELV-OB = .000  
RN/L = 2.250 MACH = .900

ALPHA ( 1 ) = -3.986 BETA ( 1 ) = .003 MACH = .89730 RN/L = 2.1589 PO = 1063.0 P = 530.39

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3450 -.3991  
19.940 -.3414 -.3908  
39.905 -.3725 -.4004  
320.095 -.3996 -.4556  
340.060 -.3576 -.4093

ALPHA ( 2 ) = -.294 BETA ( 1 ) = -4.044 MACH = .90407 RN/L = 2.1638 PO = 1061.8 P = 625.06

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4112 -.4548  
19.940 -.4088 -.4643  
39.905 -.4568 -.4867  
320.095 -.4296 -.4616  
340.060 -.4148 -.4388

ALPHA ( 2 ) = -.310 BETA ( 2 ) = -.028 MACH = .90407 RN/L = 2.1638 PO = 1061.8 P = 625.06

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3390 -.3904  
19.940 -.3426 -.3962  
39.905 -.3957 -.4186  
320.095 -.4126 -.4777  
340.060 -.3516 -.3998

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ARC11-0231A80 OTS(SRB=N ORB=N ) BOFLAP UP (RE4D39)

ALPHA ( 2 ) = -.320 BETA ( 3 ) = 3.981 MACH = .90407 RN/L = 2.1638 PO = 1061.8 P = 625.06

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4175	-.4670
19.940	-.4167	-.4603
39.905	-.4305	-.4524
320.095	-.4435	-.5301
340.060	-.3758	-.4698

ALPHA ( 3 ) = 3.970 BETA ( 1 ) = .000 MACH = .90120 RN/L = 2.1596 PO = 1060.2 P = 626.02

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3278	-.3684
19.940	-.3336	-.3740
39.905	-.3706	-.4012
320.095	-.3680	-.4270
340.060	-.3230	-.3784

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP (P

(RE4D40) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-09 = .000  
RN/L = 2.110 MACH = 1.100

ALPHA ( 1 ) = -3.801 BETA ( 1 ) = -.006 MACH = 1.0940 RN/L = 2.2469 PO = 1059.5 P = 499.92

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4676 -.5047  
19.940 -.4552 -.5114  
39.905 -.4655 -.5047  
320.095 -.4921 -.5285  
340.060 -.4602 -.4932

ALPHA ( 2 ) = -.304 BETA ( 1 ) = -4.003 MACH = 1.0971 RN/L = 2.2528 PO = 1061.4 P = 498.93

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4957 -.5406  
19.940 -.4886 -.5336  
39.905 -.5493 -.5691  
320.095 -.5322 -.5671  
340.060 -.4974 -.5393

ALPHA ( 2 ) = -.267 BETA ( 2 ) = .003 MACH = 1.0971 RN/L = 2.2523 PO = 1061.4 P = 498.93

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4707 -.5059  
19.940 -.4620 -.5189  
39.905 -.4871 -.5310  
320.095 -.4887 -.5252  
340.060 -.4627 -.4931

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP 1/P

(RE4D40)

ALPHA ( 2 ) = -.390 BETA ( 3 ) = 4.016 MACH = 1.0971 RN/L = 2.2528 PC = 1061.4 P = 498.93

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.5102	-.5532
19.940	-.5011	-.5478
39.905	-.5091	-.5511
320.095	-.5342	-.5513
340.060	-.4997	-.5427

ALPHA ( 3 ) = 3.983 BETA ( 1 ) = .003 MACH = 1.1029 RN/L = 2.2593 PC = 1063.7 P = 496.39

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4982	-.5416
19.940	-.4929	-.5532
39.905	-.5119	-.5589
320.095	-.5304	-.5648
340.060	-.4816	-.5116

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4041) ( 14 JAN 75 )

## REFERENCE DATA

## PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
 LREF = 1290.3000 IN. YMRP = .0000 IN.  
 BREF = 1290.3000 IN. ZMRP = .0000 IN.  
 SCALE = .0200

ELV-18 = .000 ELV-08 = .000  
 RN/L = 2.500 MACH = .600

ALPHA ( 1 ) = -4.000 BETA ( 1 ) = -.022 MACH = .60170 RN/L = 2.5509 PO = 1557.4 P = 1213.4

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
 .000 -.2049 -.2131  
 19.940 -.2049 -.2127  
 39.905 -.2058 -.2131  
 320.095 -.2072 -.2067  
 340.060 -.2094 -.2098

ALPHA ( 2 ) = -.261 BETA ( 1 ) = -4.041 MACH = .60297 RN/L = 2.5529 PO = 1556.0 P = 1217.1

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
 .000 -.2143 -.2166  
 19.940 -.2166 -.2217  
 39.905 -.2175 -.2231  
 320.095 -.2101 -.2198  
 340.060 -.2129 -.2133

ALPHA ( 2 ) = -.271 BETA ( 2 ) = -.025 MACH = .60297 RN/L = 2.5529 PO = 1556.0 P = 1217.1

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
 .000 -.1936 -.1963  
 19.940 -.1978 -.2027  
 39.905 -.1996 -.2014  
 320.095 -.1987 -.1982  
 340.060 -.1899 -.1899

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4041)

ALPHA ( 2 ) = - .343 BETA ( 3 ) = 3.991 MACH = .60297 RN/L = 2.5529 PO = 1556.0 P = 1217.1

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2018	-.2081
19.940	-.2001	-.2096
39.905	-.2096	-.2105
320.095	-.2107	-.2098
340.060	-.2045	-.2068

ALPHA ( 3 ) = 3.944 BETA ( 1 ) = -.022 MACH = .60230 RN/L = 2.5548 PO = 1556.7 P = 1218.3

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1899	-.1930
19.940	-.1962	-.2003
39.905	-.1961	-.1994
320.095	-.1943	-.1976
340.060	-.1953	-.1976

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D42) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = .000 ELV-08 = .000  
RN/L = 3.250 MACH = .920

ALPHA ( 1 ) = -3.930 BETA ( 1 ) = .003 MACH = .90330 RN/L = 3.1425 PO = 1558.1 P = 918.01

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2508 -.2579  
19.940 -.2503 -.2554  
39.905 -.2481 -.2454  
320.095 -.2439 -.2467  
340.060 -.2576 -.2585

ALPHA ( 2 ) = -.284 BETA ( 1 ) = -4.041 MACH = .90200 RN/L = 3.1234 PO = 1556.9 P = 918.58

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2651 -.2692  
19.940 -.2621 -.2715  
39.905 -.2624 -.2694  
320.095 -.2609 -.2696  
340.060 -.2700 -.2722

ALPHA ( 2 ) = -.281 BETA ( 2 ) = -.028 MACH = .90200 RN/L = 3.1294 PO = 1556.9 P = 918.58

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2340 -.2378  
19.940 -.2351 -.2372  
39.905 -.2378 -.2402  
320.095 -.2379 -.2419  
340.060 -.2324 -.2359

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAF UP

(RE4042)

ALPHA ( 2 ) = -.248 BETA ( 3 ) = 3.994 MACH = .90200 RN/L = 3.1294 PO = 1556.9 P = 918.5

SECTION ( 1 ) BDFLAF UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2529	-.2591
19.940	-.2434	-.2637
39.905	-.2529	-.2591
320.095	-.2603	-.2579
340.060	-.2578	-.2591

ALPHA ( 3 ) = 3.960 BETA ( 1 ) = .000 MACH = .89670 RN/L = 3.1185 PO = 1557.4 P = 924.11

SECTION ( 1 ) BDFLAF UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2231	-.2258
19.940	-.2247	-.2313
39.905	-.2207	-.2310
320.095	-.2226	-.2297
340.060	-.2258	-.2340

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D43) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
 IREF = 1290.3000 IN. YMRP = .0000 IN.  
 BREF = 1290.3000 IN. ZMRP = .0000 IN.  
 SCALE = .0200

ELV-1B = .000 ELV-OB = .000  
 RN/L = 3.250 MACH = 1.100

ALPHA ( 1 ) = -4.016 BETA ( 1 ) = .003 MACH = 1.0981 RN/L = 3.2788 PO = 1555.3 P = 730.16

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3523 -.3548  
 19.940 -.3512 -.3567  
 39.905 -.3503 -.3544  
 320.095 -.3541 -.3569  
 340.060 -.3537 -.3532

ALPHA ( 2 ) = -.287 BETA ( 1 ) = -4.006 MACH = 1.0996 RN/L = 3.2582 PO = 1553.2 P = 727.81

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3970 -.4013  
 19.940 -.3988 -.3997  
 39.905 -.3972 -.4022  
 320.095 -.4019 -.4028  
 340.060 -.3977 -.3993

ALPHA ( 2 ) = -.291 BETA ( 2 ) = .000 MACH = 1.0996 RN/L = 3.2682 PO = 1553.2 P = 727.81

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3505 -.3550  
 19.940 -.3514 -.3575  
 39.905 -.3496 -.3564  
 320.095 -.3532 -.3541  
 340.060 -.3505 -.3521

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D43)

ALPHA ( 2 ) = -.310 BETA ( 3 ) = 4.006 MACH = 1.0996 RN/L = 3.2662 PO = 1553.2 P = 727.81

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4085 -.4135  
19.940 -.4083 -.4112  
39.905 -.4026 -.4049  
320.095 -.4135 -.4162  
340.060 -.4099 -.4145

ALPHA ( 3 ) = 4.016 BETA ( 1 ) = .003 MACH = 1.1070 RN/L = 3.2713 PO = 1554.6 P = 721.83

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3728 -.3789  
19.940 -.3742 -.3801  
39.905 -.3735 -.3771  
320.095 -.3779 -.3802  
340.060 -.3757 -.3751

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D44) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = .000 ELV-OB = .000  
RN/L = 3.250 MACH = 1.250

ALPHA ( 1 ) = -3.953 BETA ( 1 ) = .000 MACH = 1.2532 RN/L = 3.2918 PO = 1554.6 P = 597.59

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2969 -.3024  
19.940 -.2969 -.3046  
39.905 -.2981 -.3051  
320.095 -.2989 -.3024  
340.060 -.2992 -.3003

ALPHA ( 2 ) = -.287 BETA ( 1 ) = -4.003 MACH = 1.2509 RN/L = 3.2855 PO = 1552.7 P = 598.69

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3378 -.3402  
19.940 -.3386 -.3423  
39.905 -.3353 -.3411  
320.095 -.3359 -.3404  
340.060 -.3402 -.3397

ALPHA ( 2 ) = -.277 BETA ( 2 ) = .003 MACH = 1.2509 RN/L = 3.2855 PO = 1552.7 P = 598.69

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2962 -.2996  
19.940 -.2936 -.3007  
39.905 -.2937 -.2989  
320.095 -.2956 -.2978  
340.060 -.2956 -.2973

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4044)

ALPHA ( 2 ) = -.376 BETA ( 3 ) = 4.012 MACH = 1.2509 RN/L = 3.2855 PO = 1552.7 P = 598.69

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3317	-.3345
19.940	-.3308	-.3336
39.905	-.3291	-.3295
320.095	-.3348	-.3374
340.060	-.3347	-.3364

ALPHA ( 3 ) = 3.947 BETA ( 1 ) = -.003 MACH = 1.2488 RN/L = 3.2905 PO = 1553.9 P = 600.81

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3299	-.3323
19.940	-.3299	-.3342
39.905	-.3299	-.3331
320.095	-.3339	-.3358
340.060	-.3259	-.3318

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D45) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = .000 ELV-08 = .000  
RN/L = 3.250 MACH = 1.400

ALPHA ( 1 ) = -3.990 BETA ( 1 ) = -.003 MACH = 1.4024 RN/L = 3.2259 PO = 1554.6 P = 486.87

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2749 -.2757  
19.940 -.2764 -.2793  
39.905 -.2757 -.2810  
320.095 -.2759 -.2828  
340.060 -.2748 -.2759

ALPHA ( 2 ) = -.284 BETA ( 1 ) = -4.000 MACH = 1.4054 RN/L = 3.2 90 PO = 1553.7 P = 484.53

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2836 -.2863  
19.940 -.2855 -.2859  
39.905 -.2842 -.2844  
320.095 -.2863 -.2880  
340.060 -.2865 -.2865

ALPHA ( 2 ) = -.297 BETA ( 2 ) = .000 MACH = 1.4054 RN/L = 3.2190 PO = 1553.7 P = 484.53

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2628 -.2641  
19.940 -.2635 -.2653  
39.905 -.2615 -.2665  
320.095 -.2622 -.2671  
340.060 -.2616 -.2629

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4045)

ALPHA ( 2 ) = -.294 BETA ( 3 ) = 4.009 MACH = 1.4054 RN/L = 3.2190 PO = 1553.7 P = 484.53

SECTION ( 118DFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2856	-.2886
19.940	-.2892	-.2873
39.905	-.2856	-.2875
320.095	-.2866	-.2875
340.060	-.2881	-.2886

ALPHA ( 3 ) = 3.980 BETA ( 1 ) = .000 MACH = 1.4028 RN/L = 3.2136 PO = 1553.2 P = 486.18

SECTION ( 118DFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2772	-.2795
19.940	-.2765	-.2791
39.905	-.2759	-.2791
320.095	-.2776	-.2795
340.060	-.2755	-.2778

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP UP

(RE4046) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = .000 ELV-08 = .000  
RN/L = 2.500 MACH = .600

ALPHA ( 1 ) = -3.894 BETA ( 1 ) = -.022 MACH = .60060 RN/L = 2.5569 PO = 1558.8 P = 1221.5

SECTION ( 1 ) BDCLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3644 -.4169  
19.940 -.3666 -.4221  
39.905 -.4288 -.4627  
320.095 -.4449 -.5199  
340.060 -.3651 -.4187

ALPHA ( 2 ) = -.350 BETA ( 1 ) = -4.041 MACH = .59890 RN/L = 2.5548 PO = 1557.9 P = 1222.4

SECTION ( 1 ) BDCLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3736 -.4153  
19.940 -.3750 -.4254  
39.905 -.4744 -.4928  
320.095 -.4212 -.4534  
340.060 -.3544 -.3845

ALPHA ( 2 ) = -.320 BETA ( 2 ) = -.025 MACH = .59890 RN/L = 2.5548 PO = 1557.9 P = 1222.4

SECTION ( 1 ) BDCLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3605 -.4130  
19.940 -.3528 -.4226  
39.905 -.4173 -.4514  
320.095 -.4184 -.5094  
340.060 -.3609 -.4171



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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFL/P UP

(FE4046)

ALPHA ( 2 ) = -.337 BETA ( 3 ) = 3.994 MACH = .59890 RN/L = 2.5548 PO = 1557.9 P = 1222.4

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3854	-.4417
19.940	-.3635	-.4387
39.905	-.4004	-.4254
320.095	-.4326	-.5181
340.060	-.3968	-.4677

ALPHA ( 3 ) = 4.076 BETA ( 1 ) = -.028 MACH = .60170 RN/L = 2.5615 PO = 1555.3 P = 1217.7

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3478	-.3908
19.940	-.3421	-.3989
39.905	-.4079	-.4377
320.095	-.3920	-.4745
340.060	-.3363	-.3851

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP JP

(RE4047) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = .000 ELV-OB = .000  
RN/L = 3.250 MACH = .900

ALPHA ( 1 ) = -4.033 BETA ( 1 ) = .000 MACH = .90410 RN/L = 3.1247 PO = 1556.7 P = 916.32

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3518 -.4038  
19.940 -.3424 -.3974  
39.905 -.3842 -.4149  
320.095 -.4284 -.4811  
340.060 -.3559 -.4074

ALPHA ( 2 ) = -.343 BETA ( 1 ) = -4.044 MACH = .90470 RN/L = 3.1302 PO = 1559.3 P = 917.26

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4010 -.4459  
19.940 -.4067 -.4637  
39.905 -.4718 -.4907  
320.095 -.4354 -.4573  
340.060 -.4065 -.4321

ALPHA ( 2 ) = -.340 BETA ( 2 ) = -.028 MACH = .90470 RN/L = 3.1302 PO = 1559.3 P = 917.26

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3357 -.3852  
19.940 -.3440 -.3881  
39.905 -.3919 -.4163  
320.095 -.4196 -.4845  
340.060 -.3434 -.3986

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4D47)

ALPHA ( 2 ) = -.340 BETA ( 3 ) = 3.991 MACH = .90470 RN/L = 3.1302 PO = 1559.3 P = 917.26

SECTION ( 11BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4055	-.4546
19.940	-.3939	-.4419
39.905	-.4316	-.4602
320.095	-.4755	-.5309
340.060	-.3994	-.4548

ALPHA ( 3 ) = 3.927 BETA ( 1 ) = -.028 MACH = .90080 RN/L = 3.1258 PO = 1559.5 P = 921.25

SECTION ( 11BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3257	-.3770
19.940	-.3289	-.3719
39.905	-.3584	-.3892
320.095	-.3602	-.4229
340.060	-.3351	-.3827

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4D48) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-0B = .000  
RN/L = 3.250 MACH = 1.100

ALPHA ( 1 ) = -3.934 BETA ( 1 ) = .003 MACH = 1.0985 RN/L = 3.2696 PO = 1558.8 P = 731.42

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4439 -.4803  
19.940 -.4281 -.4817  
39.905 -.4425 -.4760  
320.095 -.4665 -.5042  
340.060 -.4334 -.4687

ALPHA ( 2 ) = -.413 BETA ( 1 ) = -4.006 MACH = 1.1014 RN/L = 3.2674 PO = 1557.4 P = 728.17

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4754 -.5292  
19.940 -.4631 -.5096  
39.905 -.5294 -.5495  
320.095 -.5104 -.5444  
340.060 -.4779 -.5219

ALPHA ( 2 ) = -.443 BETA ( 2 ) = .000 MACH = 1.1014 RN/L = 3.2674 PO = 1557.4 P = 728.17

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4513 -.4931  
19.940 -.4392 -.4990  
39.905 -.4633 -.5101  
320.035 -.4741 -.5078  
340.060 -.4444 -.4781

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP UP

(RE4048)

ALPHA ( 2 ) = -.420 BETA ( 3 ) = 4.016 MACH = 1.1014 RN/L = 3.2674 PO = 1557.4 P = 728.17

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4861	-.5321
19.940	-.4768	-.5259
39.905	-.4900	-.5225
320.095	-.5117	-.5300
340.060	-.4747	-.5248

ALPHA ( 3 ) = 3.884 BETA ( 1 ) = .000 MACH = 1.1080 RN/L = 3.2705 PO = 1558.1 P = 722.58

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4755	-.5220
19.940	-.4705	-.5284
39.905	-.4928	-.5395
320.095	-.5069	-.5457
340.060	-.4617	-.4969

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D49) ( 21 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = 8.000 ELV-0B = 4.000  
RN/L = 4.250 ALPHA = .000

BETA ( 1 ) = -.063 MACH ( 1 ) = .908 ALPHA = .87925-01 RN/L = 4.3824 PO = 2112.8 P = 1025.7

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2305 -.2373  
19.940 -.2321 -.2382  
39.905 -.2373 -.2387  
320.095 -.2422 -.2435  
340.060 -.2392 -.2422

BETA ( 1 ) = -.063 MACH ( 2 ) = .947 ALPHA = .87925-01 RN/L = 4.3824 PO = 2112.8 P = 1025.7

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2769 -.2824  
19.940 -.2796 -.2843  
39.905 -.2809 -.2826  
320.095 -.2805 -.2839  
340.060 -.2852 -.2822

BETA ( 1 ) = -.063 MACH ( 3 ) = .998 ALPHA = .87925-01 RN/L = 4.3824 PO = 2112.8 P = 1025.7

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3461 -.3483  
19.940 -.3477 -.3551  
39.905 -.3481 -.3544  
320.095 -.3475 -.3515  
340.060 -.3437 -.3492

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ARC11-0231A60 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4049)

BETA ( 1 ) = -.063 MACH ( 4 ) = 1.050 ALPHA = .87925-01 RN/L = 4.3824 PO = 2112.8 P = 1025.7

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3794	-.3823
19.940	-.3811	-.3872
39.905	-.3803	-.3860
320.095	-.3805	-.3814
340.060	-.3806	-.3816

BETA ( 1 ) = -.063 MACH ( 5 ) = 1.102 ALPHA = .87925-01 RN/L = 4.3824 PO = 2112.8 P = 1025.7

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3588	-.3635
19.940	-.3605	-.3664
39.905	-.3603	-.3675
320.095	-.3647	-.3671
340.060	-.3588	-.3600

BETA ( 1 ) = -.063 MACH ( 6 ) = 1.146 ALPHA = .87925-01 RN/L = 4.3824 PO = 2112.8 P = 1025.7

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3198	-.3269
19.940	-.3256	-.3287
39.905	-.3323	-.3270
320.095	-.3361	-.3325
340.060	-.3257	-.3210

BETA ( 1 ) = -.063 MACH ( 7 ) = 1.196 ALPHA = .87925-01 RN/L = 4.3824 PO = 2112.8 P = 1025.7

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3429	-.3427
19.940	-.3418	-.3471
39.905	-.3399	-.3421
320.095	-.3466	-.3428
340.060	-.3444	-.3444

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D49)

BETA (1) = -.063 MACH (8) = 1.253 ALPHA = .87925-01 RN/L = 4.3924 PO = 2112.8 P = 1025.7

SECTION (1)BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3153	-.3172
19.940	-.3168	-.3174
39.905	-.3149	-.3171
320.095	-.3184	-.3200
340.060	-.3185	-.3169



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ARC11-023.A80 OTS(SRB=N ORB=N )

BDFLAP UP

(RE4050) ( 21 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = 8.000 ELV-0B = 4.000  
RN/L = 4.250 ALPHA = .000

BETA ( 1 ) = -.063 MACH ( 1 ) = .893 ALPHA = -.66125-02 RN/L = 4.3693 PO = 2107.0 P = 1025.6

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3552 -.4150  
19.940 -.3608 -.4194  
39.905 -.4059 -.4233  
320.095 -.4183 -.4768  
340.060 -.3629 -.4191

BETA ( 1 ) = -.063 MACH ( 2 ) = .948 ALPHA = -.66125-02 RN/L = 4.3633 PO = 2107.0 P = 1025.6

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4558 -.5241  
19.940 -.4540 -.5179  
39.905 -.5018 -.5383  
320.095 -.5456 -.6162  
340.060 -.4706 -.5408

BETA ( 1 ) = -.063 MACH ( 3 ) = .995 ALPHA = -.66125-02 RN/L = 4.3693 PO = 2107.0 P = 1025.6

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.6261 -.6815  
19.940 -.6121 -.6860  
39.905 -.6775 -.7061  
320.095 -.6554 -.7089  
340.060 -.6200 -.6762

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP (RE4050)

BETA ( 1 ) = -.063 MACH ( 4 ) = 1.052 ALPHA = -.66125-02 RN/L = 4.3693 PO = 2107.0 P = 1025.6

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.5647	-.6073
19.940	-.5527	-.6140
39.905	-.5819	-.6319
320.095	-.5728	-.6171
340.060	-.5540	-.5996

BETA ( 1 ) = -.063 MACH ( 5 ) = 1.098 ALPHA = -.66125-02 RN/L = 4.3693 PO = 2107.0 P = 1025.6

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4904	-.5328
19.940	-.4827	-.5432
39.905	-.5020	-.5457
320.095	-.5010	-.5332
340.060	-.4827	-.5259

BETA ( 1 ) = -.063 MACH ( 6 ) = 1.149 ALPHA = -.66125-02 RN/L = 4.3693 PO = 2107.0 P = 1025.6

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4534	-.4861
19.940	-.4519	-.4902
39.905	-.4566	-.4912
320.095	-.4765	-.5187
340.060	-.4412	-.4824

BETA ( 1 ) = -.063 MACH ( 7 ) = 1.197 ALPHA = -.66125-02 RN/L = 4.3693 PO = 2107.0 P = 1025.6

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4097	-.4453
19.940	-.4041	-.4441
39.905	-.4179	-.4482
320.095	-.4327	-.4712
340.060	-.3983	-.4444

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAF UP

(RE4D50)

BETA ( 1 ) = -.063 MACH ( 8 ) = 1.250 ALPHA = -.66125-02 RN/L = 4.3693 PO = 2107.0 P = 1025.6

SECTION ( 1 ) BDFLAF UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3623	-.3947
19.940	-.3585	-.3953
39.905	-.3698	-.3961
320.095	-.3768	-.4083
340.060	-.3557	-.3950

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D51) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = 8.000 ELV-08 = 4.000  
RN/L = 4.250 MACH = .980

ALPHA ( 1 ) = -3.950 BETA ( 1 ) = -.063 MACH = .98240 RN/L = 4.3057 PO = 2116.2 P = 1141.0

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3198 -.3397  
19.940 -.3286 -.3313  
39.905 -.3313 -.3350  
320.095 -.3312 -.3347  
340.060 -.3317 -.3299

ALPHA ( 2 ) = -.416 BETA ( 1 ) = -4.075 MACH = .98283 RN/L = 4.3109 PO = 2116.4 P = 1140.5

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3483 -.3585  
19.940 -.3564 -.3536  
39.905 -.3440 -.3517  
320.095 -.3410 -.3564  
340.060 -.3502 -.3545

ALPHA ( 2 ) = -.386 BETA ( 2 ) = -.063 MACH = .98283 RN/L = 4.3109 PO = 2116.4 P = 1140.5

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3296 -.3369  
19.940 -.3439 -.3402  
39.905 -.3473 -.3426  
320.095 -.3438 -.3378  
340.060 -.3297 -.3281

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) BDFLAP UP (RE4051)

ALPHA ( 2 ) = - .370 BETA ( 3 ) = 3.950 MACH = .98283 RN/L = 4.3109 PO = 2116.4 P = 1140.5

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3429	-.3525
19.940	-.3440	-.3509
39.905	-.3354	-.3523
320.095	-.3468	-.3463
340.060	-.3467	-.3511

ALPHA ( 3 ) = 4.076 BETA ( 1 ) = -.063 MACH = .98530 RN/L = 4.3166 PO = 2116.2 P = 1137.1

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3302	-.3325
19.940	-.3289	-.3345
39.905	-.3345	-.3374
320.095	-.3301	-.3339
340.060	-.3304	-.3331

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4D52) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SRFF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = 8.000 ELV-08 = 4.000  
RN/L = 4.250 MACH = .980

ALPHA ( 1 ) = -3.930 BETA ( 1 ) = -.063 MACH = .97970 RN/L = 4.2999 PO = 2109.1 P = 1140.7

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.5941 -.6531  
19.940 -.5759 -.6516  
39.905 -.6259 -.6356  
320.095 -.6357 -.6882  
340.060 -.5955 -.6479

ALPHA ( 2 ) = -.519 BETA ( 1 ) = -4.078 MACH = .98183 RN/L = 4.3033 PO = 2108.9 P = 1137.8

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.5945 -.6752  
19.940 -.5916 -.6769  
39.905 -.7109 -.6811  
320.095 -.6462 -.6936  
340.060 -.6015 -.6364

ALPHA ( 2 ) = -.476 BETA ( 2 ) = -.063 MACH = .98183 RN/L = 4.3033 PO = 2108.9 P = 1137.8

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.6122 -.6577  
19.940 -.6040 -.6833  
39.905 -.6794 -.6975  
320.095 -.6530 -.7082  
340.060 -.6006 -.6598

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP (RE4052)

ALPHA ( 2 ) = -.499 BETA ( 3 ) = 3.953 MACH = .98183 RN/L = 4.3033 PO = 2108.9 P = 1137.8

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.6246	-.6850
19.940	-.6079	-.6758
39.905	-.6279	-.6634
320.095	-.6724	-.7170
340.060	-.6114	-.6621

ALPHA ( 3 ) = 3.993 BETA ( 1 ) = -.063 MACH = .98140 RN/L = 4.3065 PO = 2109.8 P = 1138.9

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.6090	-.6754
19.940	-.6017	-.6794
39.905	-.6799	-.7029
320.095	-.6472	-.7150
340.060	-.6066	-.6670

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP JP

(RE4D53) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = 4.000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.944 BETA ( 1 ) = .000 MACH = .60320 RN/L = 3.4712 PO = 2123.2 P = 1660.4

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2316 -.2386  
19.940 -.2289 -.2363  
39.905 -.2243 -.2314  
320.095 -.2209 -.2225  
340.060 -.2353 -.2370

ALPHA ( 2 ) = -.320 BETA ( 1 ) = -4.050 MACH = .60547 RN/L = 3.4695 PO = 2122.3 P = 1656.7

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2286 -.2373  
19.940 -.2346 -.2426  
39.905 -.2316 -.2393  
320.095 -.2317 -.2347  
340.060 -.2313 -.2350

ALPHA ( 2 ) = -.297 BETA ( 2 ) = .000 MACH = .60547 RN/L = 3.4695 PO = 2122.3 P = 1656.7

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2154 -.2240  
19.940 -.2187 -.2290  
39.905 -.2237 -.2260  
320.095 -.2214 -.2214  
340.060 -.2197 -.2201



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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) BDFLAP UP (RE4D53)

ALPHA ( 2 ) = -.314 BETA ( 3 ) = 3.978 MACH = .60547 RN/L = 3.4666 PO = 2122.3 P = 1656.7

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2192 -.2228  
19.940 -.2221 -.2258  
39.905 -.2260 -.2300  
320.095 -.2286 -.2286  
340.060 -.2178 -.2254

ALPHA ( 3 ) = 4.053 BETA ( 1 ) = .000 MACH = .60520 RN/L = 3.4659 PO = 2121.8 P = 1656.8

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2101 -.2155  
19.940 -.2118 -.2171  
39.905 -.2111 -.2145  
320.095 -.2069 -.2113  
340.060 -.2095 -.2128

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D54) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.940 BETA ( 1 ) = -.044 MACH = .89610 RN/L = 4.1894 PO = 2105.5 P = 1250.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2352 -.2379  
19.940 -.2325 -.2340  
39.905 -.2339 -.2366  
320.095 -.2367 -.2384  
340.060 -.2379 -.2412

ALPHA ( 2 ) = -.284 BETA ( 1 ) = -4.059 MACH = .89087 RN/L = 4.1758 PO = 2102.0 P = 1255.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2586 -.2621  
19.940 -.2568 -.2635  
39.905 -.2546 -.2599  
320.095 -.2447 -.2576  
340.060 -.2668 -.2701

ALPHA ( 2 ) = -.320 BETA ( 2 ) = -.041 MACH = .89087 RN/L = 4.1758 PO = 2102.0 P = 1255.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2253 -.2261  
19.940 -.2309 -.2328  
39.905 -.2324 -.2358  
320.095 -.2357 -.2359  
340.060 -.2249 -.2281

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4054)

ALPHA ( 2 ) = - .314 BETA ( 3 ) = 3.975 MACH = .89087 RN/L = 4.1758 PO = 2102.0 P = 1255.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2567	-.2605
19.940	-.2501	-.2557
39.905	-.2419	-.2531
320.095	-.2517	-.2538
340.060	-.2664	-.2790

ALPHA ( 3 ) = 3.980 BETA ( 1 ) = -.038 MACH = .89310 RN/L = 4.1769 PO = 2101.3 P = 1251.7

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2143	-.2206
19.940	-.2208	-.2226
39.905	-.2212	-.2216
320.095	-.2230	-.2224
340.060	-.2189	-.2204

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D55) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = 8.000 ELV-OB = 4.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.772 BETA ( 1 ) = -.066 MACH = 1.1026 RN/L = 4.3661 PO = 2116.2 P = 987.87

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3484 -.3512  
19.940 -.3479 -.3546  
39.905 -.3461 -.3532  
320.095 -.3521 -.3540  
340.060 -.3476 -.3487

ALPHA ( 2 ) = -.380 BETA ( 1 ) = -4.075 MACH = 1.1029 RN/L = 4.3716 PO = 2116.7 P = 987.69

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4031 -.4074  
19.940 -.4043 -.4073  
39.905 -.4043 -.4074  
320.095 -.4089 -.4116  
340.060 -.4069 -.4061

ALPHA ( 2 ) = -.357 BETA ( 2 ) = -.059 MACH = 1.1029 RN/L = 4.3716 PO = 2116.7 P = 987.69

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3447 -.3487  
19.940 -.3449 -.3528  
39.905 -.3446 -.3524  
320.095 -.3513 -.3527  
340.060 -.3453 -.3455

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D55)

ALPHA ( 2 ) = - .367 BETA ( 3 ) = 3.956 MACH = 1.1029 RN/L = 4.3716 PO = 2116.7 P = 987.69

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4169	-.4212
19.940	-.4167	-.4194
39.905	-.4157	-.4184
320.095	-.4241	-.4270
340.060	-.4204	-.4224

ALPHA ( 3 ) = 4.092 BETA ( 1 ) = -.059 MACH = 1.0997 RN/L = 4.3718 PO = 2114.7 P = 990.85

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4039	-.4082
19.940	-.4037	-.4124
39.905	-.4050	-.4126
320.095	-.4103	-.4128
340.060	-.4039	-.4056

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D56) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMP = .0000 IN.  
LREF = 1290.3000 IN. YMP = .0000 IN.  
BREF = 1290.3000 IN. ZMP = .0000 IN.  
SCALE = .0200

ELV-1B = 8.000 ELV-0B = 4.000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.950 BETA ( 1 ) = -.063 MACH = 1.2534 RN/L = 4.3988 PO = 2111.9 P = 811.60

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3056 -.3101  
19.940 -.3063 -.3119  
39.905 -.3063 -.3122  
320.095 -.3094 -.3107  
340.060 -.3068 -.3073

ALPHA ( 2 ) = -.324 BETA ( 1 ) = -4.075 MACH = 1.2533 RN/L = 4.3973 PO = 2112.4 P = 811.89

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3390 -.3418  
19.940 -.3411 -.3405  
39.905 -.3400 -.3407  
320.095 -.3452 -.3455  
340.060 -.3424 -.3412

ALPHA ( 2 ) = -.314 BETA ( 2 ) = -.063 MACH = 1.2533 RN/L = 4.3973 PO = 2112.4 P = 811.89

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3074 -.3097  
19.940 -.3074 -.3100  
39.905 -.3059 -.3085  
320.095 -.3090 -.3098  
340.060 -.3066 -.3078

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LP

(RE4056)

ALPHA ( 2 ) = -.343 BETA ( 3 ) = 3.953 MACH = 1.2533 RN/L = 4.3973 PO = 2112.4 P = 811.89

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3451	-.3502
19.940	-.3460	-.3473
39.905	-.3446	-.3471
320.095	-.3500	-.3522
340.060	-.3475	-.3483

ALPHA ( 3 ) = 3.967 BETA ( 1 ) = -.066 MACH = 1.2513 RN/L = 4.3949 PO = 2112.6 P = 813.49

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3424	-.3455
19.940	-.3450	-.3460
39.905	-.3428	-.3453
320.095	-.3471	-.3495
340.060	-.3462	-.3463

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D57) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = 4.000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.953 BETA ( 1 ) = -.063 MACH = 1.4049 RN/L = 4.3087 PO = 2128.2 P = 664.20

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2863 -.2884  
19.940 -.2882 -.2897  
39.905 -.2891 -.2893  
320.095 -.2897 -.2925  
340.060 -.2868 -.2868

ALPHA ( 2 ) = -.317 BETA ( 1 ) = -4.075 MACH = 1.4057 RN/L = 4.3127 PO = 2132.4 P = 664.76

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2984 -.2972  
19.940 -.2991 -.2991  
39.905 -.2959 -.2977  
320.095 -.3000 -.3026  
340.060 -.3007 -.3000

ALPHA ( 2 ) = -.320 BETA ( 2 ) = -.059 MACH = 1.4057 RN/L = 4.3127 PO = 2132.4 P = 664.76

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2747 -.2777  
19.940 -.2762 -.2772  
39.905 -.2755 -.2768  
320.095 -.2776 -.2780  
340.060 -.2752 -.2761

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4057)

ALPHA ( 2 ) = -.522 BETA ( 3 ) = 3.956 MACH = 1.4057 RN/L = 4.3127 PO = 2132.4 P = 664.76

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2958	-.2996
19.940	-.2994	-.2973
39.905	-.2972	-.2983
320.095	-.2975	-.2966
340.060	-.2963	-.2993

ALPHA ( 3 ) = 4.208 BETA ( 1 ) = -.069 MACH = 1.4030 RN/L = 4.2923 PO = 2121.8 P = 663.96

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2876	-.2903
19.940	-.2883	-.2908
39.905	-.2877	-.2896
320.095	-.2895	-.2909
340.060	-.2854	-.2882

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4058) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-C6 = 4.000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.953 BETA ( 1 ) = .000 MACH = .59380 RN/L = 3.3921 PO = 2104.8 P = 1638.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4015 -.4534  
19.940 -.3822 -.4532  
39.905 -.4535 -.4491  
320.095 -.4267 -.4972  
340.060 -.3860 -.4460

ALPHA ( 2 ) = -3.343 BETA ( 1 ) = -4.050 MACH = .59587 RN/L = 3.4030 PO = 2105.0 P = 1655.7

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3884 -.4288  
19.940 -.3863 -.4439  
39.905 -.4644 -.5052  
320.095 -.4597 -.4567  
340.060 -.3682 -.3843

ALPHA ( 2 ) = -3.380 BETA ( 2 ) = .000 MACH = .59587 RN/L = 3.4000 PO = 2105.0 P = 1655.7

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3843 -.4326  
19.940 -.3776 -.4498  
39.905 -.4367 -.4474  
320.095 -.4104 -.4714  
340.060 -.3740 -.4248

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP UP

(RE4058)

ALPHA ( 2 ) = -.386 BETA ( 3 ) = 3.978 MACH = .59587 RN/L = 3.4030 PO = 2105.0 P = 1655.7

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3980	-.4529
19.940	-.3794	-.4571
39.905	-.4315	-.4288
320.095	-.4236	-.4860
340.060	-.3977	-.4581

ALPHA ( 3 ) = 3.993 BETA ( 1 ) = -.003 MACH = .59700 RN/L = 3.4043 PO = 2104.8 P = 1654.1

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3838	-.4272
19.940	-.3773	-.4276
39.905	-.4334	-.4501
320.095	-.3964	-.4540
340.060	-.3695	-.4225

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4D59) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = 8.000 ELV-08 = 4.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.983 BETA ( 1 ) = -.038 MACH = .89250 RN/L = 4.1747 PO = 2100.6 P = 1252.1

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3508 -.3989  
19.940 -.3391 -.3883  
39.905 -.3709 -.4053  
320.095 -.4116 -.4695  
340.060 -.3554 -.4015

ALPHA ( 2 ) = -.370 BETA ( 1 ) = -4.059 MACH = .89213 RN/L = 4.1756 PO = 2100.4 P = 1252.5

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3966 -.4456  
19.940 -.3976 -.4587  
39.905 -.4496 -.4713  
320.095 -.4339 -.4614  
340.060 -.4062 -.4212

ALPHA ( 2 ) = -.403 BETA ( 2 ) = -.044 MACH = .89213 RN/L = 4.1756 PO = 2100.4 P = 1252.5

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3346 -.3958  
19.940 -.3357 -.3867  
39.905 -.3777 -.3991  
320.095 -.4059 -.4641  
340.060 -.3356 -.3907

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP UP

(RE4059)

ALPHA ( 2 ) = -.409 BETA ( 3 ) = 3.972 MACH = .89213 RN/L = 4.1756 PO = 2100.4 P = 1252.5

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4138	-.4622
19.940	-.4005	-.4446
39.905	-.4140	-.4511
320.095	-.4475	-.4956
340.060	-.4212	-.4713

ALPHA ( 3 ) = 4.076 BETA ( 1 ) = -.041 MACH = .89250 RN/L = 4.1726 PO = 2099.9 P = 1251.7

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3281	-.3729
19.940	-.3308	-.3751
39.905	-.3655	-.4019
320.095	-.3737	-.4273
340.060	-.3317	-.3752

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(PE4000) ( '4 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.937 BETA ( 1 ) = -.059 MACH = 1.1000 RN/L = 4.3718 PO = 2109.8 P = 988.18

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

X0/LO 1.0230 1.0500

PHI  
.000 -.4603 -.5020  
19.940 -.4517 -.5109  
39.905 -.4678 -.4930  
320.095 -.4753 -.5105  
340.060 -.4551 -.4908

ALPHA ( 2 ) = -.528 BETA ( 1 ) = -.075 MACH = 1.0987 RN/L = 4.3759 PO = 2110.0 P = 989.81

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

X0/LO 1.0230 1.0500

PHI  
.000 -.5179 -.5616  
19.940 -.5036 -.5587  
39.905 -.5526 -.5915  
320.095 -.5393 -.5688  
340.060 -.5172 -.5589

ALPHA ( 2 ) = -.492 BETA ( 2 ) = -.063 MACH = 1.0987 RN/L = 4.3759 PO = 2110.0 P = 989.81

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

X0/LO 1.0230 1.0500

PHI  
.000 -.4740 -.5162  
19.940 -.4643 -.5274  
39.905 -.4757 -.5181  
320.095 -.4803 -.5151  
340.060 -.4638 -.5052

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OF POOR QUALITY

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4D60)

ALPHA ( 2 ) = - .532 BETA ( 3 ) = 3.956 MACH = 1.0987 RN/L = 4.3759 PO = 2110.0 P = 989.81

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.5366	-.5763
19.940	-.5253	-.5729
39.905	-.5316	-.5641
320.095	-.5484	-.5921
340.060	-.5242	-.5764

ALPHA ( 3 ) = 4.013 BETA ( 1 ) = -.063 MACH = 1.1000 RN/L = 4.3823 PO = 2110.5 P = 988.47

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.5216	-.5595
19.940	-.5203	-.5718
39.905	-.5293	-.5755
320.095	-.5280	-.5630
340.060	-.5060	-.5464

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP JP

(RE4D61) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
REF = 1290.3000 IN. YMRP = .0000 IN.  
REF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.960 BETA ( 1 ) = -.066 MACH = 1.2528 RN/L = 4.3924 PO = 2109.8 P = 811.49

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3333 -.3599  
19.940 -.3250 -.3615  
39.905 -.3424 -.3559  
320.095 -.3388 -.3646  
340.060 -.3207 -.3532

ALPHA ( 2 ) = -.505 BETA ( 1 ) = -4.075 MACH = 1.2524 RN/L = 4.3922 PO = 2110.3 P = 812.12

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3585 -.3900  
19.940 -.3561 -.3946  
39.905 -.3926 -.4221  
320.095 -.3864 -.4117  
340.060 -.3536 -.3896

ALPHA ( 2 ) = -.459 BETA ( 2 ) = -.059 MACH = 1.2524 RN/L = 4.3922 PO = 2110.3 P = 812.12

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3576 -.3880  
19.940 -.3529 -.3882  
39.905 -.3615 -.3864  
320.095 -.3729 -.4009  
340.060 -.3467 -.3853



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ARC11-0231A80 OTS(SRB=N OPB=N ) BDFLAP UP

(RE4D61)

ALPHA ( 2 ) = -.462 BETA ( 3 ) = 3.953 MACH = 1.2524 RN/L = 4.3922 PO = 2110.3 P = 812.12

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3724	-.4071
19.940	-.3611	-.3959
39.905	-.3678	-.3828
320.095	-.3636	-.4010
340.060	-.3509	-.4140

ALPHA ( 3 ) = 4.006 BETA ( 1 ) = -.73 MACH = 1.2481 RN/L = 4.3945 PO = 2110.5 P = 816.88

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3836	-.4167
19.940	-.3839	-.4167
39.905	-.3900	-.4158
320.095	-.3968	-.4277
340.060	-.3720	-.4096

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4D62) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = 4.000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.937 BETA ( 1 ) = -.069 MACH = 1.3993 RN/L = 4.2798 PO = 2114.0 P = 664.93

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2738 -.2937  
19.940 -.2710 -.2898  
39.905 -.2764 -.2853  
320.095 -.2792 -.2927  
340.060 -.2654 -.2891

ALPHA ( 2 ) = -.486 BETA ( 1 ) = -4.078 MACH = 1.3989 RN/L = 4.2779 PO = 2113.8 P = 665.32

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2923 -.3146  
19.940 -.2846 -.3113  
39.905 -.2994 -.3122  
320.095 -.2990 -.3137  
340.060 -.2875 -.3177

ALPHA ( 2 ) = -.486 BETA ( 2 ) = -.063 MACH = 1.3989 RN/L = 4.2779 PO = 2113.8 P = 665.32

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2794 -.3029  
19.940 -.2777 -.3019  
39.905 -.2837 -.2956  
320.095 -.2772 -.2926  
340.060 -.2718 -.2975

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAF UP

(RE4D62)

ALPHA ( 2 ) = -.499 BETA ( 3 ) = 3.953 MACH = 1.3989 RN/L = 4.2779 PO = 2113.8 P = 665.32

SECTION ( 1 ) BDFLAF UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2917	-.3129
19.940	-.2825	-.3039
39.905	-.2902	-.3044
320.095	-.2821	-.3028
340.060	-.2862	-.3222

ALPHA ( 3 ) = 4.020 BETA ( 1 ) = -.066 MACH = 1.3960 RN/L = 4.2780 PO = 2114.0 P = 668.11

SECTION ( 1 ) BDFLAF UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2883	-.3109
19.940	-.2869	-.3169
39.905	-.2921	-.3154
320.095	-.2858	-.3028
340.060	-.2825	-.3072

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N+ ORB=N ) BDFLAP UP

(RE4D63) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = 4.000  
RN/L = 4.250 MACH = .980

ALPHA ( 1 ) = -3.868 BETA ( 1 ) = -.063 MACH = .98020 RN/L = 4.3081 PO = 2109.8 P = 1140.4

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.5838 -.6432  
19.940 -.5637 -.6479  
39.905 -.6291 -.6309  
320.095 -.6216 -.6865  
340.060 -.5855 -.6414

ALPHA ( 2 ) = -.486 BETA ( 1 ) = -4.075 MACH = .97937 RN/L = 4.3359 PO = 2108.4 P = 1140.7

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.5919 -.6676  
19.940 -.5879 -.6832  
39.905 -.6975 -.6849  
320.095 -.6386 -.6812  
340.060 -.5995 -.6405

ALPHA ( 2 ) = -.456 BETA ( 2 ) = -.063 MACH = .97937 RN/L = 4.3059 PO = 2108.4 P = 1140.7

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.6030 -.6623  
19.940 -.5824 -.6639  
39.905 -.6703 -.6790  
320.095 -.6388 -.7049  
340.060 -.5985 -.6555

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ARC11-0231A80 OTS(SRB=N+ ORB=N )

BDFLAP U<sup>2</sup>

(RE4D63)

ALPHA ( 2 ) = -.439 BETA ( 3 ) = 3.953 MACH = .97937 RN/L = 4.3059 PO = 2108.4 P = 1140.7

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.6200	-.6690
19.940	-.5954	-.6610
39.905	-.6149	-.6717
320.095	-.6661	-.7204
340.060	-.6088	-.6641

ALPHA ( 3 ) = 4.013 BETA ( 1 ) = -.069 MACH = .98150 RN/L = 4.3090 PO = 2108.4 P = 1137.9

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.6050	-.6746
19.940	-.5897	-.6759
39.905	-.6810	-.6995
320.095	-.6473	-.7051
340.060	-.5985	-.6653

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ARC11-023: A80 OTS (SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D64) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1230.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = -4.000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.973 BETA ( 1 ) = -.047 MACH = .58500 RN/L = 3.4024 PO = 2096.3 P = 1662.8

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2094 -.2182  
19.940 -.2129 -.2243  
39.905 -.2214 -.2186  
320.095 -.2157 -.2164  
340.060 -.2133 -.2165

ALPHA ( 2 ) = -.277 BETA ( 1 ) = -4.066 MACH = .58960 RN/L = 3.4202 PO = 2098.0 P = 1658.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2214 -.2295  
19.940 -.2344 -.2354  
39.905 -.2302 -.2379  
320.095 -.2268 -.2310  
340.060 -.2232 -.2274

ALPHA ( 2 ) = -.291 BETA ( 2 ) = -.047 MACH = .58960 RN/L = 3.4202 PO = 2098.0 P = 1658.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2144 -.2235  
19.940 -.2193 -.2228  
39.905 -.2204 -.2249  
320.095 -.2152 -.2205  
340.060 -.2175 -.2165

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4064)

ALPHA ( 2 ) = -.307 BETA ( 3 ) = 3.972 MACH = .58960 RN/L = 3.4202 PO = 2098.0 P = 1658.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XC/LO 1.0230 1.0500

PHI

.000	-.2172	-.2267
19.940	-.2183	-.2292
39.905	-.2204	-.2253
320.095	-.2232	-.2242
340.060	-.2235	-.2256

ALPHA ( 3 ) = 3.957 BETA ( 1 ) = -.044 MACH = .59060 RN/L = 3.4224 PO = 2098.5 P = 1657.3

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XC/LO 1.0230 1.0500

PHI

.000	-.2024	-.2091
19.940	-.2084	-.2136
39.905	-.2139	-.2112
320.095	-.2063	-.2112
340.060	-.2073	-.2056

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4065) ( 14 JAN 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
 LREF = 1290.3000 IN. YMRP = .0000 IN.  
 BREF = 1290.3000 IN. ZMRP = .0000 IN.  
 SCALE = .0200

## PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = -4.000  
 RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.977 BETA ( 1 ) = -.044 MACH = .89350 RN/L = 4.2056 PO = 2100.6 P = 1250.8

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2379 -.2375  
 19.940 -.2373 -.2393  
 39.905 -.2353 -.2387  
 320.095 -.2367 -.2393  
 340.060 -.2339 -.2394

ALPHA ( 2 ) = -.304 BETA ( 1 ) = -4.063 MACH = .89107 RN/L = 4.1787 PO = 2099.2 P = 1253.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2548 -.2576  
 19.940 -.2550 -.2621  
 39.905 -.2551 -.2579  
 320.095 -.2499 -.2591  
 340.060 -.2612 -.2665

ALPHA ( 2 ) = -.314 BETA ( 2 ) = -.044 MACH = .89107 RN/L = 4.1787 PO = 2099.2 P = 1253.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2194 -.2224  
 19.940 -.2325 -.2319  
 39.905 -.2344 -.2351  
 320.095 -.2377 -.2346  
 340.060 -.2213 -.2215



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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4055)

ALPHA ( 2 ) = - .317 BETA ( 3 ) = 3.972 MACH = .89107 RN/L = 4.1787 PO = 2099.2 P = 1253.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2535	-.2620
19.940	-.2529	-.2507
39.905	-.2420	-.2564
320.095	-.2509	-.2535
340.060	-.2594	-.2662

ALPHA ( 3 ) = 3.950 BETA ( 1 ) = -.041 MACH = .89120 RN/L = 4.1708 PO = 2098.5 P = 1252.6

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2229	-.2280
19.940	-.2253	-.2292
39.905	-.2263	-.2261
320.095	-.2271	-.2247
340.060	-.2221	-.2269

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D66) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = -4.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.963 BETA ( 1 ) = -.063 MACH = 1.0996 RN/L = 4.4015 PO = 2123.2 P = 994.87

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3528 -.3565  
19.940 -.3554 -.3600  
39.905 -.3513 -.3589  
320.095 -.3569 -.3596  
340.060 -.3535 -.3545

ALPHA ( 2 ) = -.337 BETA ( 1 ) = -.063 MACH = 1.0995 RN/L = 4.4038 PO = 2123.7 P = 995.30

SECTION ( 1 ) BDFLAP UPPER SURF.

VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4125 -.4157  
19.940 -.4137 -.4149  
39.905 -.4127 -.4127  
320.095 -.4186 -.4205  
340.060 -.4139 -.4157

ALPHA ( 2 ) = -.334 BETA ( 2 ) = -.059 MACH = 1.0995 RN/L = 4.4038 PO = 2123.7 P = 995.30

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3589 -.3631  
19.940 -.3620 -.3650  
39.905 -.3602 -.3656  
320.095 -.3643 -.3656  
340.060 -.3603 -.3603

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4066)

ALPHA ( 2 ) = -.376 BETA ( 3 ) = 3.950 MACH = 1.0995 RN/L = 4.4038 PO = 2123.7 P = 995.30

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4122	-.4169
19.940	-.4126	-.4139
39.905	-.4113	-.4121
320.095	-.4186	-.4221
340.060	-.4147	-.4166

ALPHA ( 3 ) = 3.953 BETA ( 1 ) = -.066 MACH = 1.1032 RN/L = 4.3993 PO = 2119.0 P = 988.53

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4074	-.4116
19.940	-.4090	-.4128
39.905	-.4074	-.4123
320.095	-.4138	-.4164
340.060	-.4061	-.4071

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ARC11-0231A80 OTS(SPB=OFF ORB=OFF)

BDFLAP UP

(RE4067) ( 14 JAN 75 )

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = -4.000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -.327 BETA ( 1 ) = -4.072 MACH = 1.2493 RN/L = 4.4272 PO = 2123.0 P = 820.40

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3424 -.3444  
19.940 -.3421 -.3425  
39.905 -.3398 -.3438  
320.095 -.3426 -.3459  
340.060 -.3441 -.3439

ALPHA ( 1 ) = -.317 BETA ( 2 ) = -.059 MACH = 1.2493 RN/L = 4.4272 PO = 2123.0 P = 820.40

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3071 -.3108  
19.940 -.3084 -.3116  
39.905 -.3070 -.3098  
320.095 -.3097 -.3099  
340.060 -.3082 -.3095

ALPHA ( 1 ) = -.340 BETA ( 3 ) = 3.950 MACH = 1.2493 RN/L = 4.4272 PO = 2123.0 P = 820.40

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3465 -.3484  
19.940 -.3468 -.3469  
39.905 -.3447 -.3466  
320.095 -.3475 -.3506  
340.060 -.3499 -.3514

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LP

(RE4057)

ALPHA ( 2 ) = .000 BETA ( 1 ) = -.063 MACH = 1.2510 RN/L = 4.4292 PO = 2123.9 P = 818.86

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3133	-.3157
19.940	-.3135	-.3159
39.905	-.3102	-.3148
320.095	-.3134	-.3148
340.060	-.3116	-.3123

ALPHA ( 3 ) = 3.960 BETA ( 1 ) = -.066 MACH = 1.2490 RN/L = 4.4220 PO = 2123.2 P = 820.75

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3478	-.3492
19.940	-.3479	-.3486
39.905	-.3459	-.3486
320.095	-.3486	-.3516
340.060	-.3505	-.3478

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ARC11-0231A80 OTS(S) OFF ORB=OFF)

BDCLAP UP

(RE4068) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = -4.000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.944 BETA ( 1 ) = -.059 MACH = 1.4046 RN/L = 4.3918 PO = 2123.2 P = 662.89

SECTION ( 1 ) BDCLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2788 -.2797  
19.940 -.2819 -.2840  
39.905 -.2819 -.2812  
320.095 -.2849 -.2848  
340.060 -.2817 -.2819

ALPHA ( 2 ) = -.320 BETA ( 1 ) = -4.072 MACH = 1.4079 RN/L = 4.3701 PO = 2122.5 P = 659.58

SECTION ( 1 ) BDCLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2906 -.2942  
19.940 -.2903 -.2919  
39.905 -.2914 -.2894  
320.095 -.2965 -.2973  
340.060 -.2939 -.2950

ALPHA ( 2 ) = -.320 BETA ( 2 ) = -.059 MACH = 1.4079 RN/L = 4.3701 PO = 2122.5 P = 659.58

SECTION ( 1 ) BDCLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2699 -.2724  
19.940 -.2709 -.2730  
39.905 -.2696 -.2706  
320.095 -.2716 -.2734  
340.060 -.2695 -.2718

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4068)

ALPHA ( 2 ) = -.347 BETA ( 3 ) = 3.953 MACH = 1.4079 RN/L = 4.3701 PO = 2122.5 P = 659.59

SECTION : 11BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2985	-.2915
19.940	-.2896	-.2915
39.905	-.2894	-.2928
320.095	-.2909	-.2940
340.060	-.2904	-.2924

ALPHA ( 3 ) = 3.960 BETA ( 1 ) = -.063 MACH = 1.4068 RN/L = 4.3541 PO = 2121.8 P = 660.41

SECTION : 11BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2807	-.2821
19.940	-.2821	-.2836
39.905	-.2822	-.2831
320.095	-.2850	-.2862
340.060	-.2811	-.2718

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4D69) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
OREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = -4.000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.920 BETA ( 1 ) = -.044 MACH = .59500 RN/L = 3.4531 PO = 2103.8 P = 1660.6

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3641 -.4282  
19.940 -.3683 -.4377  
39.905 -.4469 -.4377  
320.095 -.4244 -.4729  
340.060 -.3678 -.4302

ALPHA ( 2 ) = -.376 BETA ( 1 ) = -4.066 MACH = .59743 RN/L = 3.4632 PO = 2109.3 P = 1657.0

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3856 -.4307  
19.940 -.3855 -.4444  
39.905 -.4646 -.5058  
320.095 -.4514 -.4463  
340.060 -.3754 -.3899

ALPHA ( 2 ) = -.373 BETA ( 2 ) = -.050 MACH = .59743 RN/L = 3.4632 PO = 2109.3 P = 1657.0

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3844 -.4316  
19.940 -.3714 -.4370  
39.905 -.4289 -.4466  
320.095 -.4061 -.4666  
340.060 -.3511 -.4210

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP UP

(RE4D63)

ALPHA ( 2 ) = -.426 BETA ( 3 ) = 3.969 MACH = .59743 RN/L = 3.4632 PO = 2109.3 P = 1657.0

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3328	-.4484
19.940	-.3654	-.4496
39.905	-.4241	-.4057
320.095	-.4209	-.4757
340.060	-.3850	-.4615

ALPHA ( 3 ) = 3.947 BETA ( 1 ) = -.044 MACH = .59980 RN/L = 3.4697 PO = 2109.8 P = 1655.6

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3705	-.4179
19.940	-.3636	-.4339
39.905	-.4267	-.4415
320.035	-.3946	-.4417
340.060	-.3659	-.4187

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APC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4D70) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0700

ELV-IB = 8.000 ELV-OB = -4.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.897 BETA ( 1 ) = -.041 MACH = .89150 RN/L = 4.1731 PO = 2102.0 P = 1254.3

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3557 -.4063  
19.940 -.3435 -.4036  
39.905 -.3747 -.4116  
320.095 -.4206 -.4702  
340.060 -.3510 -.4083

ALPHA ( 2 ) = -.383 BETA ( 1 ) = -4.063 MACH = .89050 RN/L = 4.1731 PO = 2101.3 P = 1255.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4013 -.4360  
19.940 -.3935 -.4586  
39.905 -.4368 -.4704  
320.095 -.4272 -.4635  
340.060 -.3947 -.4188

ALPHA ( 2 ) = -.357 BETA ( 2 ) = -.047 MACH = .89050 RN/L = 4.1731 PO = 2101.3 P = 1255.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3313 -.3776  
19.940 -.3325 -.3808  
39.905 -.3599 -.3951  
320.095 -.3947 -.4471  
340.060 -.3305 -.3827

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP (RE=D70)

ALPHA ( 2 ) = -.370 BETA ( 3 ) = 3.972 MACH = .89050 RN/L = 4.1731 PO = 2101.3 P = 1255.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4344	-.4749
19.940	-.4257	-.4687
39.905	-.4157	-.4621
320.095	-.4533	-.5135
340.060	-.4315	-.4878

ALPHA ( 3 ) = 4.020 BETA ( 1 ) = -.041 MACH = .89260 RN/L = 4.1823 PO = 2101.3 P = 1252.4

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3336	-.3736
19.940	-.3271	-.3734
39.905	-.3677	-.3953
320.095	-.3740	-.4213
340.060	-.3339	-.3629

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4071) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = -4.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.963 BETA ( 1 ) = -.066 MACH = 1.0977 RN/L = 4.3743 PO = 2107.0 P = 989.57

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.5116 -.5524  
19.940 -.5056 -.5659  
39.905 -.5202 -.5553  
320.095 -.5266 -.5657  
340.060 -.4998 -.5373

ALPHA ( 2 ) = -.545 BETA ( 1 ) = -4.072 MACH = 1.1017 RN/L = 4.3738 PO = 2107.7 P = 985.11

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.6285 -.6815  
19.940 -.6168 -.6752  
39.905 -.6835 -.7198  
320.095 -.6574 -.6909  
340.060 -.6279 -.6794

ALPHA ( 2 ) = -.667 BETA ( 2 ) = -.059 MACH = 1.1017 RN/L = 4.3738 PO = 2107.7 P = 985.11

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.5705 -.6207  
19.940 -.5620 -.6335  
39.905 -.5767 -.6337  
320.095 -.5785 -.6185  
340.060 -.5571 -.6012

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP (RE4D71)

ALPHA ( 2 ) = - .519 BETA ( 3 ) = 3.953 MACH = 1.1017 RN/L = 4.3738 PO = 2107.7 P = 985.11

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.5973	-.6462
19.940	-.5879	-.6376
39.905	-.5926	-.6277
320.095	-.6184	-.6675
340.060	-.5840	-.6421

ALPHA ( 3 ) = 3.990 BETA ( 1 ) = -.066 MACH = 1.1080 RN/L = 4.3708 PO = 2107.0 P = 977.00

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.6641	-.7127
19.940	-.6615	-.7233
39.905	-.6725	-.7164
320.095	-.6736	-.7156
340.060	-.6422	-.6910

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4D72) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1S = 8.000 ELV-0B = -4.000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -4.003 BETA ( 1 ) = -.066 MACH = 1.2534 RN/L = 4.4018 PO = 2110.5 P = 811.05

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3295 -.3571  
19.940 -.3234 -.3606  
39.905 -.3421 -.3554  
59.870 -.3271 -.3582  
79.835 -.3171 -.3456

ALPHA ( 2 ) = -.572 BETA ( 1 ) = -4.072 MACH = 1.2515 RN/L = 4.3996 PO = 2110.5 P = 813.16

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3603 -.3899  
19.940 -.3547 -.3967  
39.905 -.3869 -.4176  
59.870 -.3670 -.4107  
79.835 -.3561 -.3912

ALPHA ( 2 ) = -.528 BETA ( 2 ) = -.059 MACH = 1.2515 RN/L = 4.3996 PO = 2110.5 P = 813.16

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3521 -.3827  
19.940 -.3465 -.3828  
39.905 -.3600 -.3833  
59.870 -.3666 -.3955  
79.835 -.3415 -.3798

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP (RE4D72)

ALPHA ( 2 ) = -.538 BETA ( 3 ) = 3.953 MACH = 1.2515 RN/L = 4.3996 PO = 2110.5 P = 813.16

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3773	-.4095
19.940	-.3644	-.3982
39.905	-.3711	-.3873
320.095	-.3638	-.4004
340.060	-.3662	-.4184

ALPHA ( 3 ) = 3.953 BETA ( 1 ) = -.063 MACH = 1.2505 RN/L = 4.4051 PO = 2110.5 P = 814.22

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3784	-.4106
19.940	-.3764	-.4100
39.905	-.3863	-.4100
320.095	-.3921	-.4227
340.060	-.3865	-.4043

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RC4D73) ( 14 JAN 75 )

## REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
 LREF = 1290.3000 IN. YMRP = .0000 IN.  
 BREF = 1290.3000 IN. ZMRP = .0000 IN.  
 SCALE = .0200

## PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = -4.000  
 RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -.522 BETA ( 1 ) = -4.072 MACH = 1.4084 RN/L = 4.3191 PO = 2112.8 P = 656.17

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2895 -.3117  
 19.940 -.2796 -.3033  
 39.905 -.2897 -.3044  
 320.095 -.2939 -.3096  
 340.060 -.2843 -.3151

ALPHA ( 1 ) = -.502 BETA ( 2 ) = -.059 MACH = 1.4084 RN/L = 4.3191 PO = 2112.8 P = 656.17

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2723 -.2928  
 19.940 -.2717 -.2919  
 39.905 -.2762 -.2870  
 320.095 -.2665 -.2833  
 340.060 -.2609 -.2848

ALPHA ( 1 ) = -.535 BETA ( 3 ) = 3.953 MACH = 1.4084 RN/L = 4.3191 PO = 2112.8 P = 656.17

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2830 -.3042  
 19.940 -.2749 -.2972  
 39.905 -.2827 -.2935  
 320.095 -.2764 -.2937  
 340.060 -.2755 -.3098



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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4073)

ALPHA ( 2 ) = .000 BETA ( 1 ) = -.063 MACH = 1.4118 RN/L = 4.3069 PO = 2111.9 P = 652.69

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2715	-.2912
19.940	-.2727	-.2940
39.905	-.2760	-.2876
320.095	-.2716	-.2839
340.060	-.2606	-.2874

ALPHA ( 3 ) = .020 BETA ( 1 ) = -.063 MACH = 1.4046 RN/L = 4.3270 PO = 2113.3 P = 659.80

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2743	-.2954
19.940	-.2753	-.2976
39.905	-.2786	-.2931
320.095	-.2702	-.2878
340.060	-.2679	-.2923

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D74) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = .000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.950 BETA ( 1 ) = -.009 MACH = .60200 RN/L = 3.5046 PO = 2121.1 P = 1660.3

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2203 -.2244  
19.940 -.2190 -.2247  
39.905 -.2200 -.2244  
320.095 -.2163 -.2173  
340.060 -.2199 -.2223

ALPHA ( 2 ) = -.301 BETA ( 2 ) = -4.044 MACH = .60423 RN/L = 3.5076 PO = 2121.3 P = 1657.7

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2305 -.2339  
19.940 -.2318 -.2389  
39.905 -.2342 -.2389  
320.095 -.2268 -.2339  
340.060 -.2345 -.2322

ALPHA ( 2 ) = -.287 BETA ( 2 ) = -.006 MACH = .60423 RN/L = 3.5076 PO = 2121.3 P = 1657.7

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2143 -.2187  
19.940 -.2186 -.2243  
39.905 -.2220 -.2230  
320.095 -.2199 -.2191  
340.060 -.2111 -.2111

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D74)

ALPHA ( 2 ) = -.317 BETA ( 3 ) = 3.988 MACH = .60423 RN/L = 3.5076 PO = 2121.3 P = 1657.7

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2232	-.2299
19.940	-.2258	-.2298
39.905	-.2215	-.2291
320.095	-.2234	-.2294
340.060	-.2246	-.2299

ALPHA ( 3 ) = 3.947 BETA ( 1 ) = -.009 MACH = .60510 RN/L = 3.5081 PO = 2121.8 P = 1656.9

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2104	-.2124
19.940	-.2131	-.2174
39.905	-.2094	-.2184
320.095	-.2091	-.2128
340.060	-.2091	-.2118

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D75) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.980 BETA ( 1 ) = -.012 MACH = .90260 RN/L = 4.2512 PO = 2122.5 P = 1251.5

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2410 -.2437  
19.940 -.2425 -.2398  
39.905 -.2456 -.2438  
320.095 -.2474 -.2480  
340.060 -.2469 -.2471

ALPHA ( 2 ) = -.324 BETA ( 1 ) = -4.047 MACH = .90460 RN/L = 4.2477 PO = 2121.6 P = 1248.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2574 -.2606  
19.940 -.2590 -.2635  
39.905 -.2604 -.2632  
320.095 -.2513 -.2647  
340.060 -.2615 -.2654

ALPHA ( 2 ) = -.317 BETA ( 2 ) = -.006 MACH = .90460 RN/L = 4.2477 PO = 2121.6 P = 1248.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2209 -.2233  
19.940 -.2334 -.2315  
39.905 -.2393 -.2398  
320.095 -.2421 -.2427  
340.060 -.2216 -.2208

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D75)

ALPHA ( 2 ) = - .396 BETA ( 3 ) = 3.984 MACH = .90460 RN/L = 4.2477 PO = 2121.6 P = 1248.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2584	-.2685
19.940	-.2659	-.2620
39.905	-.2582	-.2655
320.095	-.2679	-.2659
340.060	-.2669	-.2673

ALPHA ( 3 ) = 4.076 BETA ( 1 ) = -.012 MACH = .90460 RN/L = 4.2388 PO = 2121.1 P = 1247.6

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2160	-.2196
19.940	-.2189	-.2245
39.905	-.2297	-.2294
320.095	-.2295	-.2310
340.060	-.2221	-.2215

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4076) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.934 BETA ( 1 ) = .009 MACH = 1.1011 RN/L = 4.4175 PO = 2123.9 P = 993.44

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3483 -.3517  
19.940 -.3509 -.3575  
39.905 -.3517 -.3567  
320.095 -.3539 -.3536  
340.060 -.3475 -.3490

ALPHA ( 2 ) = -.238 BETA ( 1 ) = -3.994 MACH = 1.1063 RN/L = 4.4170 PO = 2123.4 P = 986.84

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4062 -.4096  
19.940 -.4078 -.4107  
39.905 -.4087 -.4094  
320.095 -.4110 -.4098  
340.060 -.4099 -.4099

ALPHA ( 2 ) = -.307 BETA ( 2 ) = .009 MACH = 1.1063 RN/L = 4.4170 PO = 2123.4 P = 986.84

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3366 -.3395  
19.940 -.3388 -.3465  
39.905 -.3378 -.3445  
320.095 -.3378 -.3393  
340.060 -.3351 -.3375

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4076)

ALPHA ( 2 ) = -.271 BETA ( 3 ) = 4.034 MACH = 1.1063 RN/L = 4.4170 PO = 2123.4 P = 986.84

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4030	-.4072
19.940	-.4061	-.4049
39.905	-.4056	-.4071
320.095	-.4074	-.4085
340.060	-.4084	-.4097

ALPHA ( 3 ) = 4.026 BETA ( 1 ) = .012 MACH = 1.1056 RN/L = 4.4135 PO = 2121.8 P = 986.83

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3875	-.3898
19.940	-.3901	-.3945
39.905	-.3870	-.3911
320.095	-.3903	-.3906
340.060	-.3870	-.3900

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D77) ( 14 JAN 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
 EF = 1290.3000 IN. YMRP = .0000 IN.  
 SREF = 1290.3000 IN. ZMRP = .0000 IN.  
 SCALE = .0200

## PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = .000  
 RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.881 BETA ( 1 ) = .012 MACH = 1.2507 RN/L = 4.4817 PO = 2123.2 P = 818.92

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3040 -.3068  
 19.940 -.3016 -.3077  
 39.905 -.3022 -.3084  
 320.095 -.3055 -.3070  
 340.060 -.3040 -.3072

ALPHA ( 2 ) = -.238 BETA ( 1 ) = -3.994 MACH = 1.2534 RN/L = 4.4652 PO = 2123.9 P = 816.27

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3324 -.3333  
 19.940 -.3344 -.3336  
 39.905 -.3335 -.3331  
 320.095 -.3379 -.3375  
 340.060 -.3350 -.3345

ALPHA ( 2 ) = -.258 BETA ( 2 ) = .009 MACH = 1.2534 RN/L = 4.4652 PO = 2123.9 P = 816.27

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3030 -.3052  
 19.940 -.3044 -.3064  
 39.905 -.3030 -.3052  
 320.095 -.3075 -.3056  
 340.060 -.3022 -.3025



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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) BOFLAP UP

(RE4D77)

ALPHA ( 2 ) = -.281 BETA ( 3 ) = 4.031 MACH = 1.2534 RN/L = 4.4652 PO = 2123.9 P = 816.27

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3366	-.3414
19.940	-.3370	-.3384
39.905	-.3372	-.3392
320.095	-.3418	-.3445
340.060	-.3398	-.3412

ALPHA ( 3 ) = 3.953 BETA ( 1 ) = .016 MACH = 1.2486 RN/L = 4.4578 PO = 2122.5 P = 820.98

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3376	-.3406
19.940	-.3388	-.3404
39.905	-.3382	-.3390
320.095	-.3435	-.3444
340.060	-.3401	-.3398

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D78) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.980 BETA ( 1 ) = -.066 MACH = 1.4100 RN/L = 4.3522 PO = 2122.5 P = 657.63

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2826 -.2836  
19.940 -.2842 -.2880  
39.905 -.2836 -.2850  
320.095 -.2838 -.2876  
340.060 -.2839 -.2841

ALPHA ( 2 ) = -.238 BETA ( 1 ) = -4.072 MACH = 1.4075 RN/L = 4.3434 PO = 2123.2 P = 660.25

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2938 -.2964  
19.940 -.2927 -.2934  
39.905 -.2939 -.2931  
320.095 -.2975 -.2985  
340.060 -.2967 -.2967

ALPHA ( 2 ) = -.228 BETA ( 2 ) = -.063 MACH = 1.4075 RN/L = 4.3434 PO = 2123.2 P = 660.25

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2731 -.2768  
19.940 -.2732 -.2769  
39.905 -.2738 -.2758  
320.095 -.2756 -.2772  
340.060 -.2728 -.2747

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4078)

ALPHA ( 2 ) = -.261 BETA ( 3 ) = 3.953 MACH = 1.4075 RN/L = 4.3434 PO = 2123.2 P = 660.25

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2946	-.2971
19.940	-.2963	-.2963
39.905	-.2956	-.2967
320.095	-.2937	-.2951
340.060	-.2955	-.2958

ALPHA ( 3 ) = 3.920 BETA ( 1 ) = -.066 MACH = 1.4043 RN/L = 4.3377 PO = 2123.2 P = 663.16

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2860	-.2874
19.940	-.2852	-.2868
39.905	-.2850	-.2853
320.095	-.2869	-.2859
340.060	-.2860	-.2859

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4D79) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = .000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -4.105 BETA ( 1 ) = -.006 MACH = .59090 RN/L = 3.4170 PO = 2104.1 P = 1661.4

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3868 -.4286  
19.940 -.3662 -.4270  
39.905 -.4493 -.4437  
320.095 -.4187 -.4902  
340.060 -.3718 -.4284

ALPHA ( 2 ) = -.383 BETA ( 1 ) = -4.047 MACH = .59743 RN/L = 3.4453 PO = 2104.1 P = 1653.0

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3858 -.4272  
19.940 -.3855 -.4439  
39.905 -.4535 -.4971  
320.095 -.4566 -.4569  
340.060 -.3715 -.3897

ALPHA ( 2 ) = -.380 BETA ( 2 ) = -.009 MACH = .59743 RN/L = 3.4453 PO = 2104.1 P = 1653.0

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3854 -.4297  
19.940 -.3727 -.4430  
39.905 -.4358 -.4459  
320.095 -.4052 -.4628  
340.060 -.3714 -.4277

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N )

BOFLAP UP

(RE4079)

ALPHA ( 2 ) = -.499 BETA ( 3 ) = 3.981 MACH = .59743 RN/L = 3.4453 PO = 2104.1 P = 1653.0

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3923	-.4389
19.940	-.3687	-.4457
39.905	-.4109	-.4103
320.095	-.4190	-.4679
340.060	-.3874	-.4464

ALPHA ( 3 ) = 3.960 BETA ( 1 ) = -.012 MACH = .59700 RN/L = 3.4428 PO = 2104.1 P = 1653.6

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3841	-.4293
19.940	-.3725	-.4320
39.905	-.4261	-.4374
320.095	-.3915	-.4447
340.060	-.3711	-.4247

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP UP

(RE4080) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = .900  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.897 BETA ( 1 ) = -.009 MACH = .89640 RN/L = 4.1815 PO = 2097.1 P = 1244.7

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3566 -.4061  
19.940 -.3463 -.3880  
39.905 -.3700 -.4068  
320.095 -.4150 -.4829  
340.060 -.3593 -.4103

ALPHA ( 2 ) = -.353 BETA ( 1 ) = -.4050 MACH = .90047 RN/L = 4.1929 PO = 2097.3 P = 1239.4

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3971 -.4431  
19.940 -.3967 -.4601  
39.905 -.4457 -.4661  
320.095 -.4321 -.4618  
340.060 -.4001 -.4276

ALPHA ( 2 ) = -.363 BETA ( 2 ) = -.009 MACH = .90047 RN/L = 4.1929 PO = 2097.3 P = 1239.4

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3333 -.3712  
19.940 -.3351 -.3756  
39.905 -.3912 -.4003  
320.095 -.4121 -.4574  
340.060 -.3388 -.3783

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4D80)

ALPHA ( 2 ) = -.519 BETA ( 3 ) = 3.981 MACH = .90047 RN/L = 4.1929 PO = 2097.3 P = 1239.4

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4243 -.4749  
15.940 -.4271 -.4645  
39.905 -.4379 -.4753  
320.095 -.4783 -.5210  
340.060 -.4235 -.4689

ALPHA ( 3 ) = 3.980 BETA ( 1 ) = -.012 MACH = .89790 RN/L = 4.1840 PO = 2097.8 P = 1243.1

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3250 -.3708  
19.940 -.3212 -.3685  
39.905 -.3641 -.3900  
320.095 -.3802 -.4292  
340.060 -.3300 -.3749

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TABULATED SOURCE DATA - 1A80

PAGE 4.1

ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP UP

(RE4DB1) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.937 BETA ( 1 ) = .012 MACH = 1.0996 RN/L = 4.3760 PO = 2105.5 P = 986.57

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4614 -.5024  
19.940 -.4499 -.5069  
39.905 -.4643 -.4947  
320.095 -.4698 -.5051  
340.060 -.4540 -.4898

ALPHA ( 2 ) = -.396 BETA ( 1 ) = -3.994 MACH = 1.1021 RN/L = 4.3810 PO = 2106.0 P = 983.89

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.5046 -.5570  
19.940 -.4946 -.5496  
39.905 -.5594 -.5838  
320.095 -.5335 -.5641  
340.060 -.5054 -.5510

ALPHA ( 2 ) = -.380 BETA ( 2 ) = .009 MACH = 1.1021 RN/L = 4.3810 PO = 2106.0 P = 983.89

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4667 -.5058  
19.940 -.4576 -.5157  
39.905 -.4674 -.5115  
320.095 -.4732 -.5035  
340.060 -.4551 -.4971

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ARC11-0231A80 OTS(SRB=N ORB=N ) BOFLAP UP (RE4081)

ALPHA ( 2 ) = -.393 BETA ( 3 ) = 4.031 MACH = 1.1021 RN/L = 4.3810 PO = 2106.0 P = 983.85

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.5263	-.5668
19.940	-.5180	-.5607
39.905	-.5202	-.5505
320.095	-.5353	-.5839
340.060	-.5161	-.5670

ALPHA ( 3 ) = 3.894 BETA ( 1 ) = .012 MACH = 1.1031 RN/L = 4.3843 PO = 2106.2 P = 982.65

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.5181	-.5561
19.940	-.5181	-.5715
39.905	-.5262	-.5688
320.095	-.5249	-.5532
340.060	-.5036	-.5419

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4D82) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.967 BETA ( 1 ) = .016 MACH = 1.2439 RN/L = 4.4220 PO = 2109.1 P = 820.87

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3392 -.3651  
19.940 -.3300 -.3649  
39.905 -.3449 -.3549  
320.095 -.3412 -.3673  
340.060 -.3265 -.3571

ALPHA ( 2 ) = -.396 BETA ( 1 ) = -3.994 MACH = 1.2511 RN/L = 4.4175 PO = 2109.6 P = 813.25

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3512 -.3810  
19.940 -.3511 -.3899  
39.905 -.3836 -.4152  
320.095 -.3808 -.4057  
340.060 -.3493 -.3845

ALPHA ( 2 ) = -.396 BETA ( 2 ) = .009 MACH = 1.2511 RN/L = 4.4175 PO = 2109.6 P = 813.25

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3514 -.3815  
19.940 -.3473 -.3826  
39.905 -.3550 -.3797  
320.095 -.3673 -.3976  
340.060 -.3424 -.3804

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4082)

ALPHA ( 2 ) = -.380 BETA ( 3 ) = 4.031 MACH = 1.2511 RN/L = 4.4175 PO = 2109.6 P = 813.25

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3581	-.4009
19.940	-.3572	-.3898
39.905	-.3632	-.3806
320.095	-.3607	-.3950
340.060	-.3568	-.4087

ALPHA ( 3 ) = 3.877 BETA ( 1 ) = .009 MACH = 1.2502 RN/L = 4.4099 PO = 2109.1 P = 813.99

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3756	-.4061
19.940	-.3737	-.4059
39.905	-.3912	-.4056
320.095	-.3859	-.4191
340.060	-.3650	-.4023

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4083) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.983 BETA ( 1 ) = -.066 MACH = 1.4086 RN/L = 4.3187 PO = 2118.3 P = 657.67

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2670 -.2852  
19.940 -.2643 -.2827  
39.905 -.2714 -.2784  
320.095 -.2712 -.2869  
340.060 -.2574 -.2793

ALPHA ( 2 ) = -.380 BETA ( 1 ) = -4.059 MACH = 1.4054 RN/L = 4.3138 PO = 2117.4 P = 660.32

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2912 -.3173  
19.940 -.2828 -.3104  
39.905 -.2961 -.3106  
320.095 -.2979 -.3133  
340.060 -.2886 -.3175

ALPHA ( 2 ) = -.380 BETA ( 2 ) = -.059 MACH = 1.4054 RN/L = 4.3138 PO = 2117.4 P = 660.32

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2769 -.2952  
19.940 -.2765 -.2963  
39.905 -.2789 -.2926  
320.095 -.2722 -.2875  
340.060 -.2659 -.2914

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4D83)

ALPHA ( 2 ) = -.409 BETA ( 3 ) = 3.953 MACH = 1.4054 RN/L = 4.3138 PO = 2117.4 P = 660.32

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2861	-.3070
19.940	-.2773	-.3000
39.905	-.2842	-.2959
320.095	-.2770	-.2953
340.060	-.2769	-.3107

ALPHA ( 3 ) = 3.828 BETA ( 1 ) = .000 MACH = 1.4102 RN/L = 4.2670 PO = 2116.9 P = 655.67

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2763	-.2996
19.940	-.2770	-.3045
39.905	-.2811	-.3022
320.095	-.2759	-.2998
340.060	-.2702	-.2971

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4084) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = 2.000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.953 BETA ( 1 ) = -.044 MACH = .59570 RN/L = 3.4174 PO = 2114.7 P = 1653.5

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2422 -.2586  
19.940 -.2348 -.2525  
39.905 -.2257 -.2379  
320.095 -.2217 -.2319  
340.060 -.2524 -.2548

ALPHA ( 2 ) = -.284 BETA ( 1 ) = -4.063 MACH = .59877 RN/L = 3.4302 PO = 2114.0 P = 1659.0

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2292 -.2366  
19.940 -.2329 -.2384  
39.905 -.2316 -.2363  
320.095 -.2235 -.2297  
340.060 -.2342 -.2373

ALPHA ( 2 ) = -.291 BETA ( 2 ) = -.047 MACH = .59877 RN/L = 3.4302 PO = 2114.0 P = 1659.0

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2054 -.2149  
19.940 -.2149 -.2176  
39.905 -.2216 -.2166  
320.095 -.2147 -.2099  
340.060 -.2051 -.2095

ORIGINAL PAGE IS  
OF POOR QUALITY

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

PAGE 4:8

ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4DS4)

ALPHA ( 2 ) = -.320 BETA ( 3 ) = 3.969 MACH = .59877 RN/L = 3.4302 PO = 2114.0 P = 1659.0

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2298	-.2441
19.940	-.2264	-.2353
39.905	-.2248	-.2282
320.095	-.2249	-.2283
340.060	-.2399	-.2410

ALPHA ( 3 ) = 3.973 BETA ( 1 ) = -.044 MACH = .59840 RN/L = 3.4294 PO = 2112.6 P = 1658.4

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2038	-.2170
19.940	-.2101	-.2194
39.905	-.2129	-.2163
320.095	-.2095	-.2096
340.060	-.2065	-.2099

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4085) ( 14 JAN 75 )

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LPEF = 1290.3000 IN. YMRP = .0000 IN.  
BPEF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 2.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.937 BETA ( 1 ) = -.050 MACH = .90250 RN/L = 4.2680 PO = 2118.3 P = 1249.1

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2376 -.2410  
19.940 -.2401 -.2419  
39.905 -.2397 -.2429  
320.095 -.2435 -.2458  
340.060 -.2380 -.2438

ALPHA ( 2 ) = -.301 BETA ( 1 ) = -4.066 MACH = .89937 RN/L = 4.2393 PO = 2116.4 P = 1252.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2544 -.2601  
19.940 -.2596 -.2632  
39.905 -.2614 -.2588  
320.095 -.2554 -.2636  
340.060 -.2599 -.2625

ALPHA ( 2 ) = -.304 BETA ( 2 ) = -.047 MACH = .89937 RN/L = 4.2393 PO = 2116.4 P = 1252.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2325 -.2382  
19.940 -.2333 -.2379  
39.905 -.2327 -.2367  
320.095 -.2347 -.2377  
340.060 -.2340 -.2358



DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D85)

ALPHA ( 2 ) = -.320 BETA ( 3 ) = 3.969 MACH = .89937 RN/L = 4.2393 PO = 2116.4 P = 1252.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2589 -.2617  
19.940 -.2639 -.2709  
39.905 -.2573 -.2637  
320.095 -.2590 -.2616  
340.060 -.2665 -.2649

ALPHA ( 3 ) = 3.977 BETA ( 1 ) = -.044 MACH = .89910 RN/L = 4.2250 PO = 2114.7 P = 1251.5

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2230 -.2256  
19.940 -.2246 -.2250  
39.905 -.2270 -.2268  
320.095 -.2244 -.2224  
340.060 -.2242 -.2251

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4086) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-OB = 2.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -4.013 BETA ( 1 ) = .016 MACH = 1.1058 RN/L = 4.4715 PO = 2118.3 P = 985.01

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3395 -.3441  
19.940 -.3408 -.3479  
39.905 -.3391 -.3449  
320.095 -.3428 -.3443  
340.060 -.3409 -.3413

ALPHA ( 2 ) = -.304 BETA ( 1 ) = -3.991 MACH = 1.1047 RN/L = 4.4560 PO = 2115.9 P = 985.23

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4022 -.4054  
19.940 -.4038 -.4047  
39.905 -.4033 -.4057  
320.095 -.4076 -.4105  
340.060 -.4032 -.4034

ALPHA ( 2 ) = -.267 BETA ( 2 ) = .009 MACH = 1.1047 RN/L = 4.4560 PO = 2115.9 P = 985.23

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3481 -.3537  
19.940 -.3495 -.3559  
39.905 -.3458 -.3554  
320.095 -.3513 -.3528  
340.060 -.3505 -.3507

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D86)

ALPHA ( 2 ) = -.327 BETA ( 3 ) = 4.034 MACH = 1.1047 RN/L = 4.4560 PO = 2115.9 P = 985.23

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3986	-.4016
19.940	-.3972	-.3997
39.905	-.3987	-.3992
320.095	-.4064	-.4079
340.060	-.4064	-.4034

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = .016 MACH = 1.1038 RN/L = 4.4466 PO = 2116.2 P = 986.43

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3887	-.3954
19.940	-.3904	-.3949
39.905	-.3893	-.3944
320.095	-.3952	-.3955
340.060	-.3920	-.3910

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4DB7) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 2.000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.871 BETA ( 1 ) = -.044 MACH = .59840 RN/L = 3.4324 PO = 2111.9 P = 1657.8

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3896 -.4289  
19.940 -.3688 -.4428  
39.905 -.4428 -.4382  
320.095 -.4165 -.4896  
340.060 -.3708 -.4292

ALPHA ( 2 ) = -.350 BETA ( 1 ) = -4.066 MACH = .59830 RN/L = 3.4341 PO = 2111.9 P = 1657.9

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3847 -.4294  
19.940 -.3839 -.4400  
39.905 -.4556 -.5136  
320.095 -.4471 -.4481  
340.060 -.3789 -.5999

ALPHA ( 2 ) = -.380 BETA ( 2 ) = -.050 MACH = .59830 RN/L = 3.4341 PO = 2111.9 P = 1657.9

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3910 -.4340  
19.940 -.3739 -.4472  
39.905 -.4360 -.4436  
320.095 -.4095 -.4718  
340.060 -.3663 -.4272

DATE 23 JUL 76

TABULATED SOURCE DATA - IAB0

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ARC11-0231AB0 OTS(SRB=N ORB=N ) BDFLAP UP

(PE4087)

ALPHA ( 2 ) = -.423 BETA ( 3 ) = 3.969 MACH = .59830 RN/L = 3.4341 PO = 2111.9 P = 1657.9

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3885	-.4616
19.940	-.3615	-.4662
39.905	-.4261	-.4084
320.095	-.4250	-.4779
340.060	-.3863	-.4710

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = -.047 MACH = .59740 RN/L = 3.4327 PO = 2111.2 P = 1658.5

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3822	-.4263
19.940	-.3698	-.4401
39.905	-.4330	-.4425
320.095	-.3943	-.4530
340.060	-.3688	-.4302

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80  
ARC11-0231A80 OTS(5)J=N ORB=N )

BOFLAP UP

PAGE 425

(RE+DB8) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 2.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.953 BETA ( 1 ) = -.044 MACH = .89500 RN/L = 4.1900 PO = 2107.0 P = 1252.5

SECTION ( 1 ) BOFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3562 -.4031  
19.940 -.3427 -.3949  
39.905 -.3673 -.3983  
320.095 -.4085 -.4619  
340.060 -.3614 -.4017

ALPHA ( 2 ) = -.383 BETA ( 1 ) = -.4065 MACH = .69813 RN/L = 4.1944 PO = 2106.2 P = 1247.9

SECTION ( 1 ) BOFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3879 -.4340  
19.940 -.3964 -.4496  
39.905 -.4374 -.4753  
320.095 -.4186 -.4487  
340.060 -.3929 -.4192

ALPHA ( 2 ) = -.376 BETA ( 2 ) = -.047 MACH = .89813 RN/L = 4.1944 PO = 2106.2 P = 1247.9

SECTION ( 1 ) BOFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3349 -.3535  
19.940 -.3264 -.3723  
39.905 -.3641 -.3939  
320.095 -.3960 -.4553  
340.060 -.3190 -.3706

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DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP UP

(RE4D88)

ALPHA ( 2 ) = -.409 BETA ( 3 ) = 3.959 MACH = .89813 RN/L = 4.1944 PO = 2106.2 P = 1247.9

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4128	-.4517
19.940	-.4128	-.4559
39.905	-.4336	-.4506
320.095	-.4712	-.4985
340.060	-.4128	-.4637

ALPHA ( 3 ) = 3.940 BETA ( 1 ) = -.044 MACH = .89700 RN/L = 4.1933 PO = 2107.0 P = 1249.8

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3212	-.3646
19.940	-.3275	-.3657
39.905	-.3519	-.3858
320.095	-.3572	-.4172
340.060	-.3304	-.3724

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4DB9) ( 14 JAN 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
 LREF = 1290.3000 IN. YMRP = .0000 IN.  
 BREF = 1290.3000 IN. ZMRP = .0000 IN.  
 SCALE = .0200

## PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 2.000  
 RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.970 BETA ( 1 ) = .016 MACH = 1.1009 RN/L = 4.4134 PO = 2105.5 P = 985.03

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

X0/LO 1.0230 1.0500

PHI

.000 -.4567 -.4954  
 19.940 -.4476 -.5052  
 39.905 -.4572 -.4848  
 320.095 -.4699 -.5044  
 340.060 -.4462 -.4843

ALPHA ( 2 ) = -.436 BETA ( 1 ) = -3.994 MACH = 1.1059 RN/L = 4.4313 PO = 2113.1 P = 982.43

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

X0/LO 1.0230 1.0500

PHI

.000 -.5053 -.5416  
 19.940 -.4890 -.5403  
 39.905 -.5445 -.5763  
 320.095 -.5249 -.5631  
 340.060 -.4989 -.5430

ALPHA ( 2 ) = -.429 BETA ( 2 ) = .009 MACH = 1.1059 RN/L = 4.4313 PO = 2113.1 P = 982.43

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

X0/LO 1.0230 1.0500

PHI

.000 -.4590 -.4894  
 19.940 -.4503 -.5096  
 39.905 -.4646 -.5056  
 320.095 -.4721 -.5011  
 340.060 -.4480 -.4897



DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP UP

(RE4089)

ALPHA ( 2 ) = -.466 BETA ( 3 ) = 4.031 MACH = 1.1059 RN/L = 4.4313 PO = 2113.1 P = 982.43

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.5095	-.5510
19.940	-.4999	-.5444
39.905	-.5044	-.5338
320.095	-.5244	-.5745
340.060	-.4985	-.5485

ALPHA ( 3 ) = 3.851 BETA ( 1 ) = .012 MACH = 1.1043 RN/L = 4.4260 PO = 2112.6 P = 984.21

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.5113	-.5498
19.940	-.5085	-.5509
39.905	-.5169	-.5607
320.095	-.5211	-.5527
340.060	-.4945	-.5347

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D90) ( 14 JAN 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
 LREF = 1290.3000 IN. YMRP = .0000 IN.  
 BREF = 1290.3000 IN. ZMRP = .0000 IN.  
 SCALE = .0200

## PARAMETRIC DATA

ELV-1B = 4.000 ELV-0B = 4.000  
 RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.960 BETA ( 1 ) = -.003 MACH = .59840 RN/L = 3.4955 PO = 2121.1 P = 1665.1

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
 .000 -.2158 -.2202  
 19.940 -.2189 -.2256  
 39.905 -.2185 -.2240  
 320.095 -.2158 -.2165  
 340.060 -.2206 -.2192

ALPHA ( 2 ) = -.267 BETA ( 1 ) = -4.003 MACH = .59907 RN/L = 3.4936 PO = 2121.1 P = 1664.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
 .000 -.2249 -.2303  
 19.940 -.2246 -.2374  
 39.905 -.2246 -.2270  
 320.095 -.2228 -.2255  
 340.060 -.2256 -.2310

ALPHA ( 2 ) = -.291 BETA ( 2 ) = .012 MACH = .59907 RN/L = 3.4936 PO = 2121.1 P = 1664.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
 .000 -.2068 -.2109  
 19.940 -.2135 -.2172  
 39.905 -.2088 -.2189  
 320.095 -.2061 -.2166  
 340.060 -.2105 -.2048

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BOFLAP UP

(RE4D90)

ALPHA ( 2 ) = -.294 BETA ( 3 ) = 4.028 MACH = .59907 RN/L = 3.4936 PO = 2121.1 P = 1664.2

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2183	-.2214
19.940	-.2204	-.2210
39.905	-.2177	-.2214
320.095	-.2176	-.2203
340.060	-.2194	-.2221

ALPHA ( 3 ) = 3.973 BETA ( 1 ) = .006 MACH = .59960 RN/L = 3.4896 PO = 2121.1 P = 1664.8

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2014	-.2074
19.940	-.2031	-.2115
39.905	-.2071	-.2149
320.095	-.2053	-.2087
340.060	-.2020	-.2095

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D91) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 4.000 ELV-08 = 4.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.980 BETA ( 1 ) = -.003 MACH = .90430 RN/L = 4.2125 PO = 2104.8 P = 1238.7

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2450 -.2492  
19.940 -.2467 -.2468  
32.905 -.2415 -.2481  
320.095 -.2448 -.2458  
340.060 -.2468 -.2515

ALPHA ( 2 ) = -.267 BETA ( 1 ) = -4.003 MACH = .90037 RN/L = 4.1975 PO = 2104.1 P = 1243.6

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2609 -.2611  
19.940 -.2603 -.2690  
32.905 -.2597 -.2658  
320.095 -.2559 -.2633  
340.060 -.2644 -.2669

ALPHA ( 2 ) = -.291 BETA ( 2 ) = .012 MACH = .90037 RN/L = 4.1975 PO = 2104.1 P = 1243.6

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2370 -.2382  
19.940 -.2376 -.2405  
32.905 -.2310 -.2424  
320.095 -.2307 -.2439  
340.060 -.2416 -.2402

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4091)

ALPHA ( 2 ) = -.284 BETA ( 3 ) = 4.028 MACH = .90037 RN/L = 4.1975 PO = 2104.1 P = 1243.6

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2543	-.2551
19.940	-.2603	-.2545
39.905	-.2511	-.2625
320.095	-.2586	-.2602
340.060	-.2633	-.2625

ALPHA ( 3 ) = 3.970 BETA ( 1 ) = -.003 MACH = .90050 RN/L = 4.1955 PO = 2102.7 P = 1242.6

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2177	-.2263
19.940	-.2267	-.2245
39.905	-.2263	-.2267
320.095	-.2255	-.2267
340.060	-.2241	-.2313

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4092) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 4.000 ELV-08 = 4.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.957 BETA ( 1 ) = .003 MACH = 1.0978 RN/L = 4.3356 PO = 2110.5 P = 991.11

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3547 -.3593  
19.940 -.3562 -.3605  
39.905 -.3545 -.3584  
320.095 -.3578 -.3577  
340.060 -.3547 -.3557

ALPHA ( 2 ) = -.284 BETA ( 1 ) = -3.994 MACH = 1.0997 RN/L = 4.3377 PO = 2110.5 P = 988.87

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4084 -.4099  
19.940 -.4079 -.4099  
39.905 -.4090 -.4099  
320.095 -.4107 -.4163  
340.060 -.4084 -.4086

ALPHA ( 2 ) = -.281 BETA ( 2 ) = .000 MACH = 1.0997 RN/L = 4.3377 PO = 2110.5 P = 988.87

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3442 -.3459  
19.940 -.3454 -.3502  
39.905 -.3427 -.3493  
320.095 -.3439 -.3471  
340.060 -.3432 -.3472

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D92)

ALPHA ( 2 ) = -.320 BETA ( 3 ) = 4.028 MACH = 1.0997 RN/L = 4.3377 PO = 2110.5 P = 988.87

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4149	-.4180
19.940	-.4146	-.4161
39.905	-.4131	-.4129
320.095	-.4201	-.4213
340.060	-.4165	-.4180

ALPHA ( 3 ) = 3.977 BETA ( 1 ) = .003 MACH = 1.0598 RN/L = 4.3390 PO = 2109.8 P = 988.41

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3932	-.3993
19.940	-.3943	-.4010
39.905	-.3957	-.4020
320.095	-.3980	-.4013
340.060	-.3946	-.3959

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D93) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 4.000 ELV-0B = 4.000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.953 BETA ( 1 ) = .006 MACH = 1.2528 RN/L = 4.3463 PO = 2110.5 P = 811.76

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2985 -.3039  
19.940 -.2985 -.3047  
39.905 -.2980 -.3053  
320.095 -.3001 -.3036  
340.060 -.2991 -.2994

ALPHA ( 2 ) = -.238 BETA ( 1 ) = -3.997 MACH = 1.2535 RN/L = 4.3462 PO = 2111.4 P = 811.30

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3308 -.3310  
19.940 -.3321 -.3326  
39.905 -.3307 -.3335  
320.095 -.3350 -.3374  
340.060 -.3320 -.3336

ALPHA ( 2 ) = -.231 BETA ( 2 ) = .000 MACH = 1.2535 RN/L = 4.3462 PO = 2111.4 P = 811.30

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2984 -.3014  
19.940 -.2973 -.3035  
39.905 -.2983 -.3024  
320.095 -.3034 -.3055  
340.060 -.2996 -.3011



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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4D93)

ALPHA ( 2 ) = -.284 BETA ( 3 ) = 4.034 MACH = 1.2535 RN/L = 4.3462 PO = 2111.4 P = 811.30

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3365	-.3394
19.940	-.3387	-.3364
39.905	-.3359	-.3395
320.095	-.3410	-.3463
340.060	-.3389	-.3389

ALPHA ( 3 ) = 3.977 BETA ( 1 ) = .000 MACH = 1.2524 RN/L = 4.3409 PO = 2110.5 P = 812.19

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3327	-.3343
19.940	-.3338	-.3344
39.905	-.3327	-.3346
320.095	-.3384	-.3408
340.060	-.3338	-.3348

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4094) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 4.000 ELV-OB = 4.000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.897 BETA ( 1 ) = .016 MACH = 1.4070 RN/L = 4.3762 PO = 2135.2 P = 664.38

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2698 -.2718  
19.940 -.2728 -.2743  
39.905 -.2707 -.2737  
320.095 -.2696 -.2731  
340.060 -.2722 -.2733

ALPHA ( 2 ) = -.271 BETA ( 1 ) = -3.991 MACH = 1.4086 RN/L = 4.3552 PO = 2132.6 P = 662.12

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2858 -.2875  
19.940 -.2854 -.2862  
39.905 -.2849 -.2833  
320.095 -.2861 -.2874  
340.060 -.2878 -.2875

ALPHA ( 2 ) = -.251 BETA ( 2 ) = .009 MACH = 1.4086 RN/L = 4.3552 PO = 2132.6 P = 662.12

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2599 -.2623  
19.940 -.2623 -.2633  
39.905 -.2615 -.2638  
320.095 -.2598 -.2607  
340.060 -.2583 -.2601

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4094)

ALPHA ( 2 ) = -.284 BETA ( 3 ) = 4.031 MACH = 1.4086 RN/L = 4.3552 PO = 2132.6 P = 662.12

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO LO 1.0230 1.0500

PHI

.000	-.2865	-.2877
19.940	-.2864	-.2890
39.905	-.2858	-.2898
59.865	-.2844	-.2940
79.860	-.2858	-.2866

ALPHA ( 3 ) = 3.973 BETA ( 1 ) = .006 MACH = 1.3982 RN/L = 4.3323 PO = 2123.9 P = 669.12

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO LO 1.0230 1.0500

PHI

.000	-.2777	-.2804
19.940	-.2806	-.2798
39.905	-.2779	-.2814
59.865	-.2778	-.2799
79.860	-.2814	-.2824

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(PE4095) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = 4.000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.960 BETA ( 1 ) = .006 MACH = .59310 RN/L = 3.4103 PO = 2111.9 P = 1677.5

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3955 -.4453  
19.940 -.3901 -.4496  
39.905 -.4518 -.4507  
320.035 -.4301 -.4681  
340.060 -.3926 -.4557

ALPHA ( 2 ) = -.297 BETA ( 1 ) = -4.003 MACH = .59743 RN/L = 3.4671 PO = 2111.9 P = 1659.1

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3950 -.4403  
19.940 -.3992 -.4560  
39.905 -.4982 -.5241  
320.035 -.4468 -.4454  
340.060 -.3847 -.4016

ALPHA ( 2 ) = -.307 BETA ( 2 ) = .012 MACH = .59743 RN/L = 3.4671 PO = 2111.9 P = 1659.1

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3668 -.4205  
19.940 -.3639 -.4300  
39.905 -.4300 -.4521  
320.035 -.4065 -.4708  
340.060 -.3546 -.4134

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4095)

ALPHA ( 2 ) = -.376 BETA ( 3 ) = 4.022 MACH = .59743 RN/L = 3.4671 PO = 2111.9 P = 1659.1

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4032 -.4612  
19.940 -.3687 -.4552  
39.905 -.4240 -.4178  
320.095 -.4347 -.4976  
340.060 -.4082 -.4713

ALPHA ( 3 ) = 4.020 BETA ( 1 ) = -.003 MACH = .60100 RN/L = 3.4818 PO = 2111.9 P = 1654.5

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3801 -.4144  
19.940 -.3647 -.4311  
39.905 -.4228 -.4455  
320.095 -.3886 -.4455  
340.060 -.3562 -.4119

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4D96) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 4.000 ELV-08 = 4.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.891 BETA ( 1 ) = -.003 MACH = .90360 RN/L = 4.2068 PO = 2106.2 P = 1240.4

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3590 -.3987  
19.940 -.3391 -.3927  
39.905 -.3754 -.3955  
320.095 -.4370 -.4806  
340.060 -.3654 -.4058

ALPHA ( 2 ) = -.390 BETA ( 1 ) = -4.003 MACH = .89957 RN/L = 4.1991 PO = 2105.5 P = 1245.5

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4077 -.4509  
19.940 -.4047 -.4640  
39.905 -.4474 -.4765  
320.095 -.4302 -.4570  
340.060 -.4085 -.4358

ALPHA ( 2 ) = -.360 BETA ( 2 ) = .012 MACH = .89957 RN/L = 4.1991 PO = 2105.5 P = 1245.5

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3401 -.3782  
19.940 -.3258 -.3730  
39.905 -.3641 -.3947  
320.095 -.4156 -.4652  
340.060 -.3359 -.3836

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP UP

(RE4D96)

ALPHA ( 2 ) = -.406 BETA ( 3 ) = 4.031 MACH = .89957 RN/L = 4.1991 PO = 2105.5 P = 1245.5

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4225	-.4695
19.940	-.4154	-.4513
39.905	-.4336	-.4627
320.095	-.4680	-.5044
340.060	-.4066	-.4631

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = -.003 MACH = .90050 RN/L = 4.1971 PO = 2105.5 P = 1244.3

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3187	-.3613
19.940	-.3226	-.3548
39.905	-.3505	-.3740
320.095	-.3655	-.3986
340.060	-.3235	-.3690

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## TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP UP

(RE4D97) ( 14 JAN 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
 LREF = 1290.3000 IN. YMRP = .0000 IN.  
 BREF = 1290.3000 IN. ZMRP = .0000 IN.  
 SCALE = .0200

## PARAMETRIC DATA

ELV-1B = 4.000 ELV-0B = 4.000  
 RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.963 BETA ( 1 ) = .003 MACH = 1.0995 RN/L = 4.3360 PO = 2105.5 P = 986.72

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4487 -.4899  
 19.940 -.4344 -.4866  
 39.905 -.4573 -.4878  
 320.095 -.4643 -.5088  
 340.060 -.4383 -.4773

ALPHA ( 2 ) = -.409 BETA ( 1 ) = -3.997 MACH = 1.0997 RN/L = 4.3375 PO = 2105.5 P = 986.54

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4997 -.5460  
 19.940 -.4864 -.5424  
 39.905 -.5640 -.5816  
 320.095 -.5327 -.5679  
 340.060 -.5007 -.5492

ALPHA ( 2 ) = -.386 BETA ( 2 ) = -.003 MACH = 1.0997 RN/L = 4.3375 PO = 2105.5 P = 986.54

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4555 -.4981  
 19.940 -.4419 -.5072  
 39.905 -.4638 -.5119  
 320.095 -.4668 -.5077  
 340.060 -.4462 -.4911



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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP UP

(RE4097)

ALPHA ( 2 ) = - .429 BETA ( 3 ) = 4.028 MACH = 1.0997 RN/L = 4.3375 PO = 2105.5 P = 986.54

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.5110	-.5588
19.940	-.4986	-.5514
39.905	-.5074	-.5420
320.095	-.5263	-.5792
340.060	-.4961	-.5541

ALPHA ( 3 ) = 4.033 BETA ( 1 ) = - .003 MACH = 1.0997 RN/L = 4.3440 PO = 2106.2 P = 986.87

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4992	-.5442
19.940	-.4956	-.5594
39.905	-.5215	-.5669
320.095	-.5125	-.5607
340.060	-.4862	-.5268

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4D98) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 4.000 ELV-0B = 4.000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.973 BETA ( 1 ) = .003 MACH = 1.2526 RN/L = 4.3420 PO = 2108.4 P = 811.19

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3154 -.3470  
19.940 -.3085 -.3478  
39.905 -.3297 -.3523  
320.095 -.3265 -.3651  
340.060 -.3051 -.3390

ALPHA ( 2 ) = -.482 BETA ( 1 ) = -3.994 MACH = 1.2535 RN/L = 4.3392 PO = 2107.9 P = 809.99

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3367 -.3677  
19.940 -.3340 -.3830  
39.905 -.3950 -.4244  
320.095 -.3709 -.4011  
340.060 -.3361 -.3753

ALPHA ( 2 ) = -.439 BETA ( 2 ) = -.003 MACH = 1.2535 RN/L = 4.3392 PO = 2107.9 P = 809.98

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3385 -.3729  
19.940 -.3320 -.3751  
39.905 -.3472 -.3772  
320.095 -.3592 -.3339  
340.060 -.3296 -.3729

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4098)

ALPHA ( 2 ) = -.416 BETA ( 3 ) = 4.028 MACH = 1.2535 RN/L = 4.3392 PO = 2107.9 P = 809.98

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3615	-.3961
19.940	-.3449	-.3827
39.905	-.3554	-.3747
320.095	-.3553	-.4049
340.060	-.3438	-.4050

ALPHA ( 3 ) = 4.020 BETA ( 1 ) = .003 MACH = 1.2508 RN/L = 4.3353 PO = 2107.7 P = 812.82

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3571	-.3952
19.940	-.3565	-.3970
39.905	-.3690	-.4021
320.095	-.3815	-.4298
340.060	-.3462	-.3892

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP UP

(RE4099) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 4.000 ELV-0B = 4.000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.944 BETA ( 1 ) = .009 MACH = 1.4093 RN/L = 4.2699 PO = 2108.4 P = 653.90

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2515 -.2736  
19.940 -.2467 -.2722  
39.905 -.2560 -.2724  
320.095 -.2615 -.2833  
340.060 -.2420 -.2672

ALPHA ( 2 ) = -.403 BETA ( 1 ) = -3.991 MACH = 1.4102 RN/L = 4.2615 PO = 2109.3 P = 653.36

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2741 -.3007  
19.940 -.2632 -.2936  
39.905 -.2815 -.3015  
320.095 -.2872 -.3056  
340.060 -.2712 -.3052

ALPHA ( 2 ) = -.386 BETA ( 2 ) = .012 MACH = 1.4102 RN/L = 4.2615 PO = 2109.3 P = 653.36

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2572 -.2818  
19.940 -.2553 -.2840  
39.905 -.2588 -.2790  
320.095 -.2523 -.2778  
340.060 -.2466 -.2769

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP UP

(RE4D99)

ALPHA ( 2 ) = -.443 BETA ( 3 ) = 4.034 MACH = 1.4102 RN/L = 4.2615 PO = 2109.3 P = 653.36

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2759	-.3025
19.940	-.2634	-.2917
39.905	-.2745	-.2907
320.095	-.2680	-.3055
340.060	-.2598	-.3100

ALPHA ( 3 ) = 3.864 BETA ( 1 ) = .012 MACH = 1.4084 RN/L = 4.2570 PO = 2109.1 P = 654.92

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2610	-.2884
19.940	-.2615	-.2948
39.905	-.2756	-.3031
320.095	-.2575	-.2803
340.060	-.2533	-.2816

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TABULATED SOURCE DATA - 1A80  
ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BOFLAP UP

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(RE4DA0) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = 4.000  
FN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.894 BETA ( 1 ) = .000 MACH = .60180

RN/L = 3.5043 PO = 2121.1 P = 1660.6

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2054 -.2047  
19.940 -.2047 -.2138  
39.905 -.2111 -.2142  
320.095 -.2062 -.2059  
340.060 -.2034 -.2025

ALPHA ( 2 ) = -.281 BETA ( 1 ) = -4.003 MACH = .59723

RN/L = 3.4829 PO = 2122.3 P = 1667.4

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2169 -.2240  
19.940 -.2217 -.2251  
39.905 -.2196 -.2240  
320.095 -.2154 -.2189  
340.060 -.2236 -.2175

ALPHA ( 2 ) = -.287 BETA ( 2 ) = .012 MACH = .59723

RN/L = 3.4829 PO = 2122.3 P = 1667.4

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2008 -.2093  
19.940 -.2035 -.2103  
39.905 -.2056 -.2079  
320.095 -.2016 -.2040  
340.060 -.2022 -.2052

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4DA0)

ALPHA ( 2 ) = - .301    BETA ( 3 ) = 4.028    MACH = .59723    RN/L = 3.4829    PO = 2122.3    P = 1667.4

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2144	-.2266
19.940	-.2155	-.2206
39.905	-.2152	-.2239
320.095	-.2151	-.2212
340.060	-.2171	-.2231

ALPHA ( 3 ) = 3.986    BETA ( 1 ) = .012    MACH = .59790    RN/L = 3.4847    PO = 2122.5    P = 1666.8

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1965	-.2026
19.940	-.2023	-.2081
39.905	-.2013	-.2074
320.095	-.1990	-.2003
340.060	-.2020	-.2013

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4DA1) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = 4.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.996 BETA ( 1 ) = .009 MACH = .89940 RN/L = 4.2300 PO = 2121.8 P = 1255.3

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2348 -.2415  
19.940 -.2400 -.2405  
39.905 -.2374 -.2434  
320.095 -.2398 -.2434  
340.060 -.2419 -.2451

ALPHA ( 2 ) = -.281 BETA ( 1 ) = -4.006 MACH = .90087 RN/L = 4.2382 PO = 2122.0 P = 1253.5

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2619 -.2663  
19.940 -.2613 -.2655  
39.905 -.2631 -.2677  
320.095 -.2564 -.2674  
340.060 -.2651 -.2687

ALPHA ( 2 ) = -.284 BETA ( 2 ) = .009 MACH = .90087 RN/L = 4.2382 PO = 2122.0 P = 1253.5

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2311 -.2347  
19.940 -.2393 -.2360  
39.905 -.2371 -.2418  
320.095 -.2371 -.2426  
340.060 -.2307 -.2321



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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4DA1)

ALPHA ( 2 ) = -.281 BETA ( 3 ) = 4.028 MACH = .90087 RN/L = 4.2382 PO = 2122.0 P = 1253.5

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2572	-.2619
19.940	-.2576	-.2594
39.905	-.2576	-.2662
320.095	-.2592	-.2626
340.060	-.2647	-.2631

ALPHA ( 3 ) = 4.023 BETA ( 1 ) = .016 MACH = .90100 RN/L = 4.2328 PO = 2121.8 P = 1253.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2165	-.2244
19.940	-.2224	-.2244
39.905	-.2226	-.2238
320.095	-.2232	-.2234
340.060	-.2200	-.2226

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4DA2) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = .000 ELV-08 = 4.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.967 BETA ( 1 ) = .006 MACH = 1.0986 RN/L = 4.3563 PO = 2114.0 P = 991.79

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3483 -.3529  
19.940 -.3477 -.3555  
39.905 -.3494 -.3533  
320.095 -.3534 -.3531  
340.060 -.3495 -.3515

ALPHA ( 2 ) = -.284 BETA ( 1 ) = -4.003 MACH = 1.1004 RN/L = 4.3594 PO = 2113.8 P = 989.54

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4057 -.4101  
19.940 -.4023 -.4053  
39.905 -.4028 -.4036  
320.095 -.4060 -.4044  
340.060 -.4010 -.4047

ALPHA ( 2 ) = -.258 BETA ( 2 ) = -.012 MACH = 1.1004 RN/L = 4.3594 PO = 2113.8 P = 989.54

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3355 -.3399  
19.940 -.3359 -.3412  
39.905 -.3333 -.3408  
320.095 -.3370 -.3377  
340.060 -.3363 -.3381

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) BDFLAP UP

(RE4DA2)

ALPHA ( 2 ) = -.301 BETA ( 3 ) = 4.016 MACH = 1.1004 RN/L = 4.3594 PO = 2113.8 P = 989.54

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4085 -.4127  
19.940 -.4076 -.4119  
39.905 -.4073 -.4090  
320.095 -.4151 -.4162  
340.060 -.4100 -.4149

ALPHA ( 3 ) = 3.947 BETA ( 1 ) = .000 MACH = 1.1030 RN/L = 4.3633 PO = 2114.0 P = 986.41

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3781 -.3858  
19.940 -.3789 -.3873  
39.905 -.3782 -.3833  
320.095 -.3823 -.3826  
340.060 -.3809 -.3824

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4DA3) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = 4.000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.947 BETA ( 1 ) = -.006 MACH = 1.2545 RN/L = 4.3671 PO = 2114.0 P = 611.27

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2977 -.3023  
19.940 -.2980 -.3047  
39.905 -.2982 -.3045  
320.095 -.2985 -.3007  
340.060 -.2993 -.3004

ALPHA ( 2 ) = -.248 BETA ( 1 ) = -4.000 MACH = 1.2545 RN/L = 4.3581 PO = 2114.0 P = 811.32

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3271 -.3303  
19.940 -.3285 -.3298  
39.905 -.3266 -.3306  
320.095 -.3282 -.3301  
340.060 -.3278 -.3309

ALPHA ( 2 ) = -.244 BETA ( 2 ) = -.006 MACH = 1.2545 RN/L = 4.3581 PO = 2114.0 P = 811.32

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2965 -.3006  
19.940 -.2972 -.3037  
39.905 -.2957 -.3017  
320.095 -.2986 -.3001  
340.060 -.2974 -.2993

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4DA3)

ALPHA ( 2 ) = -.271 BETA ( 3 ) = 4.022 MACH = 1.2545 RN/L = 4.3581 PO = 2114.0 P = 811.32

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3350	-.3386
19.940	-.3359	-.3364
39.905	-.3331	-.3350
320.095	-.3370	-.3405
340.060	-.3378	-.3396

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = .003 MACH = 1.2546 RN/L = 4.3551 PO = 2114.0 P = 811.12

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3274	-.3281
19.940	-.3277	-.3309
39.905	-.3279	-.3298
320.095	-.3306	-.3311
340.060	-.3271	-.3300

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4DA4) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = .000 ELV-OB = 4.000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.947 BETA ( 1 ) = .006 MACH = 1.4033 RN/L = 4.3439 PO = 2107.0 P = 659.02

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2669 -.2691  
19.940 -.2703 -.2715  
39.905 -.2696 -.2715  
320.095 -.2693 -.2725  
340.060 -.2661 -.2686

ALPHA ( 2 ) = -.267 BETA ( 1 ) = -3.994 MACH = 1.4040 RN/L = 4.3128 PO = 2099.2 P = 655.94

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2830 -.2854  
19.940 -.2827 -.2845  
39.905 -.2844 -.2840  
320.095 -.2859 -.2863  
340.060 -.2856 -.2848

ALPHA ( 2 ) = -.277 BETA ( 2 ) = -.003 MACH = 1.4040 RN/L = 4.3128 PO = 2099.2 P = 655.94

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2577 -.2626  
19.940 -.2587 -.2616  
39.905 -.2605 -.2606  
320.095 -.2598 -.2600  
340.060 -.2591 -.2599

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP UP

(RE4DA4)

ALPHA ( 2 ) = -.284 BETA ( 3 ) = 4.019 MACH = 1.4040 RN/L = 4.3128 PO = 2099.2 P = 655.94

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2543	-.2879
19.940	-.2852	-.2858
39.905	-.2821	-.2857
320.095	-.2825	-.2853
340.060	-.2844	-.2851

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = .006 MACH = 1.3970 RN/L = 4.2777 PO = 2085.7 P = 658.16

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2712	-.2767
19.940	-.2735	-.2748
39.905	-.2769	-.2762
320.095	-.2765	-.2756
340.060	-.2739	-.2737

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4DA5) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = .000 ELV-08 = 4.000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.983 BETA ( 1 ) = .012 MACH = .59900 RN/L = 3.4730 PO = 2113.3 P = 1658.1

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3952 -.4494  
19.940 -.3759 -.4442  
39.905 -.4398 -.4585  
320.095 -.4426 -.5051  
340.060 -.3852 -.4491

ALPHA ( 2 ) = -.337 BETA ( 1 ) = -4.006 MACH = .60037 RN/L = 3.4773 PO = 2112.8 P = 1656.0

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3876 -.4279  
19.940 -.3887 -.4456  
39.905 -.5182 -.5216  
320.095 -.4329 -.4547  
340.060 -.3781 -.3972

ALPHA ( 2 ) = -.370 BETA ( 2 ) = .009 MACH = .60037 RN/L = 3.4773 PO = 2112.8 P = 1656.0

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3826 -.4260  
19.940 -.3666 -.4404  
39.905 -.4263 -.4605  
320.095 -.4231 -.4946  
340.060 -.3710 -.4306



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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP UP

(RE4DA5)

ALPHA ( 2 ) = -.453 BETA ( 3 ) = 4.025 MACH = .60037 RN/L = 3.4773 PO = 2112.8 P = 1656.0

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3915	-.4490
19.940	-.3627	-.4494
39.905	-.4070	-.4216
320.095	-.4520	-.5364
340.060	-.3916	-.4514

ALPHA ( 3 ) = 3.910 BETA ( 1 ) = .009 MACH = .60100 RN/L = 3.4738 PO = 2112.6 P = 1655.0

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3712	-.4168
19.940	-.3645	-.4259
39.905	-.4306	-.4522
320.095	-.3965	-.4701
340.060	-.3621	-.4134

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4DA6) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = 4.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.937 BETA ( 1 ) = .016 MACH = .90250 RN/L = 4.2121 PO = 2111.9 P = 1245.3

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3647 -.4216  
19.940 -.3519 -.4063  
39.905 -.3818 -.4236  
320.095 -.4209 -.4882  
340.060 -.3750 -.4353

ALPHA ( 2 ) = -.376 BETA ( 1 ) = -4.006 MACH = .90930 RN/L = 4.2268 PO = 2111.9 P = 1236.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4155 -.4608  
19.940 -.4129 -.4771  
39.905 -.4835 -.4964  
320.095 -.4377 -.4583  
340.060 -.4143 -.4461

ALPHA ( 2 ) = -.353 BETA ( 2 ) = .009 MACH = .90930 RN/L = 4.2268 PO = 2111.9 P = 1236.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3441 -.3940  
19.940 -.3341 -.3844  
39.905 -.3860 -.4193  
320.095 -.4187 -.4830  
340.060 -.3493 -.3974

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP (RE4DA6)

ALPHA ( 2 ) = -.420 BETA ( 3 ) = 4.022 MACH = .90930 RN/L = 4.2268 PO = 2111.9 P = 1236.2

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4401	-.4922
19.940	-.4299	-.4772
39.905	-.4577	-.4857
320.095	-.5040	-.5634
340.060	-.4219	-.4785

ALPHA ( 3 ) = 3.910 BETA ( 1 ) = .006 MACH = .91060 RN/L = 4.2296 PO = 2111.9 P = 1234.3

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3158	-.3613
19.940	-.3246	-.3690
39.905	-.3660	-.3800
320.095	-.3808	-.4282
340.060	-.3244	-.3743

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4DA7) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = 4.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.996 BETA ( 1 ) = .006 MACH = 1.0997 RN/L = 4.3565 PO = 2107.7 P = 987.56

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4315 -.4752  
19.940 -.4168 -.4760  
39.905 -.4364 -.4648  
320.095 -.4549 -.4977  
340.060 -.4246 -.4637

ALPHA ( 2 ) = -.416 BETA ( 1 ) = -4.003 MACH = 1.0993 RN/L = 4.3567 PO = 2107.7 P = 988.07

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4867 -.5333  
19.940 -.4696 -.5211  
39.905 -.5458 -.5628  
320.095 -.5188 -.5512  
340.060 -.4841 -.5323

ALPHA ( 2 ) = -.403 BETA ( 2 ) = -.012 MACH = 1.0993 RN/L = 4.3567 PO = 2107.7 P = 988.07

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4409 -.4843  
19.940 -.4254 -.4899  
39.905 -.4463 -.4924  
320.095 -.4619 -.4965  
340.060 -.4338 -.4769

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4DA7)

ALPHA ( 2 ) = -.426 BETA ( 3 ) = 4.019 MACH = 1.0993 RN/L = 4.3567 PO = 2107.7 P = 988.07

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4999	-.5449
19.940	-.4909	-.5373
39.905	-.5008	-.5378
320.095	-.5201	-.5520
340.060	-.4806	-.5437

ALPHA ( 3 ) = 3.798 BETA ( 1 ) = .009 MACH = 1.0994 RN/L = 4.3619 PO = 2107.7 P = 987.85

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4823	-.5276
19.940	-.4745	-.5375
39.905	-.5035	-.5555
320.095	-.5033	-.5508
340.060	-.4680	-.5085

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP UP

(RE4DA8) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-OB = 4.000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.996 BETA ( 1 ) = .009 MACH = 1.2550 RN/L = 4.3537 PO = 2109.1 P = 808.83

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3083 -.3386  
19.940 -.3008 -.3395  
39.905 -.3256 -.3457  
320.095 -.3177 -.3554  
340.060 -.2981 -.3297

ALPHA ( 2 ) = -.400 BETA ( 1 ) = -4.003 MACH = 1.2517 RN/L = 4.3574 PO = 2109.1 P = 812.36

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3250 -.3588  
19.940 -.3312 -.3763  
39.905 -.3969 -.4185  
320.095 -.3670 -.3889  
340.060 -.3222 -.3682

ALPHA ( 2 ) = -.393 BETA ( 2 ) = -.012 MACH = 1.2517 RN/L = 4.3574 PO = 2109.1 P = 812.36

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3279 -.3657  
19.940 -.3205 -.3693  
39.905 -.3398 -.3908  
320.095 -.3514 -.3947  
340.060 -.3171 -.3660

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP UP

(RE4DA8)

ALPHA ( 2 ) = - .413 BETA ( 3 ) = 4.022 MACH = 1.2517 RN/L = 4.3574 PO = 2109.1 P = 812.36

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3546	-.3988
19.940	-.3429	-.3812
39.905	-.3594	-.3794
59.870	-.3623	-.4100
79.835	-.3395	-.4009

ALPHA ( 3 ) = 3.947 BETA ( 1 ) = .003 MACH = 1.2539 RN/L = 4.3574 PO = 2109.1 P = 810.01

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3393	-.3791
19.940	-.3309	-.3815
39.905	-.3598	-.3998
59.870	-.3827	-.4225
79.835	-.3293	-.3715

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 O/S(SRB=N ORB=N)

BDFLAP UP

(RE4DA9) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = 4.000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.940 BETA ( 1 ) = .009 MACH = 1.4085 RN/L = 4.2899 PO = 2110.5 P = 655.32

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2387 -.2631  
19.940 -.2366 -.2656  
39.905 -.2445 -.2677  
320.095 -.2466 -.2714  
340.060 -.2293 -.2583

ALPHA ( 2 ) = -.449 BETA ( 1 ) = -3.997 MACH = 1.4066 RN/L = 4.2802 PO = 2110.5 P = 657.03

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2620 -.2929  
19.940 -.2509 -.2798  
39.905 -.2729 -.2963  
320.095 -.2743 -.2979  
340.060 -.2618 -.2988

ALPHA ( 2 ) = -.380 BETA ( 2 ) = -.006 MACH = 1.4066 RN/L = 4.2802 PO = 2110.5 P = 657.03

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2475 -.2761  
19.940 -.2448 -.2766  
39.905 -.2538 -.2787  
320.095 -.2443 -.2744  
340.060 -.2375 -.2721

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP UP

(RE4DA9)

ALPHA ( 2 ) = -.443 BETA ( 3 ) = 4.025 MACH = 1.4066 RN/L = 4.2802 PO = 2110.5 P = 657.03

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0530

PHI

.000	-.2645	-.2952
19.940	-.2554	-.2856
39.905	-.2688	-.2861
320.095	-.2573	-.2938
340.060	-.2477	-.2985

ALPHA ( 3 ) = 3.821 BETA ( 1 ) = .006 MACH = 1.4060 RN/L = 4.2736 PO = 2109.8 P = 657.37

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2493	-.2786
19.940	-.2465	-.2824
39.905	-.2723	-.3069
320.095	-.2465	-.2810
340.060	-.2408	-.2723

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)BDFLAP UP

(RE4DB0) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-0B = .000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -4.013 BETA ( 1 ) = .006 MACH = .60070 RN/L = 3.5069 PO = 2116.2 P = 1658.2

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3492 -.3748  
19.940 -.3538 -.3791  
39.905 -.3774 -.3857  
320.095 -.3542 -.3760  
340.060 -.3495 -.3710

ALPHA ( 2 ) = -.271 BETA ( 1 ) = -4.006 MACH = .59863 RN/L = 3.4917 PO = 2115.4 P = 1660.2

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3882 -.4042  
19.940 -.3858 -.4130  
39.905 -.4021 -.4110  
320.095 -.3839 -.3979  
340.060 -.3875 -.4099

ALPHA ( 2 ) = -.310 BETA ( 2 ) = .003 MACH = .59863 RN/L = 3.4917 PO = 2115.4 P = 1660.2

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3414 -.3498  
19.940 -.3461 -.3608  
39.905 -.3544 -.3684  
320.095 -.3458 -.3612  
340.060 -.3253 -.3441

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)BDFLAF UP

(RE4080)

ALPHA ( 2 ) = -.310 BETA ( 3 ) = 4.025 MACH = .59863 RN/L = 3.4917 PO = 2115.4 P = 1660.2

SECTION ( 1 ) BDFLAF UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3583 -.3764  
19.940 -.3522 -.3733  
39.905 -.3593 -.3782  
320.095 -.3473 -.3723  
340.060 -.3614 -.3808

ALPHA ( 3 ) = 3.930 BETA ( 1 ) = .009 MACH = .59910 RN/L = 3.4923 PO = 2115.4 P = 1659.7

SECTION ( 1 ) BDFLAF UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3369 -.3531  
19.940 -.3389 -.3603  
39.905 -.3497 -.3589  
320.095 -.3390 -.3498  
340.060 -.3315 -.3531

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TABULATED SOURCE DATA - 1A80

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1A011-0231A80 OTS(SRB=N ORB NO.2 OUT)BDFLAP UP

(RE4DB1) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -4.069 BETA ( 1 ) = .009 MACH = .90080 RN/L = 4.2148 PO = 2109.8 P = 1246.4

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3575 -.3670  
19.940 -.3534 -.3668  
39.905 -.3337 -.3563  
320.095 -.3540 -.3686  
340.060 -.3534 -.3731

ALPHA ( 2 ) = -.304 BETA ( 1 ) = -4.006 MACH = .90390 RN/L = 4.2180 PO = 2109.6 P = 1242.0

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4075 -.4279  
19.940 -.4009 -.4403  
39.905 -.3983 -.4085  
320.095 -.3960 -.4034  
340.060 -.3381 -.4180

ALPHA ( 2 ) = -.317 BETA ( 2 ) = .003 MACH = .90390 RN/L = 4.2180 PO = 2109.6 P = 1242.0

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3275 -.3410  
19.940 -.3345 -.3475  
39.905 -.3406 -.3469  
320.095 -.3496 -.3490  
340.060 -.3173 -.3358

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)BDFLAP UP

(RE4DB1)

ALPHA ( 2 ) = -.357 BETA ( 3 ) = 4.025 MACH = .90390 RN/L = 4.2180 PC = 2109.6 P = 1242.0

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4119	-.4313
19.940	-.3990	-.4187
39.905	-.3928	-.4026
320.095	-.4000	-.4259
340.060	-.4099	-.4348

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = .019 MACH = .90670 RN/L = 4.2222 PC = 2109.8 P = 1239.4

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3234	-.3305
19.940	-.3174	-.3369
39.905	-.3184	-.3377
320.095	-.3193	-.3339
340.060	-.3200	-.3276

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)BDFLAP UP

(RE4DB2) ( 14 IN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.973 BETA ( 1 ) = -.009 MACH = 1.0946 RN/L = 4.3814 PO = 2106.2 P = 993.13

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4175 -.4251  
19.940 -.4188 -.4307  
39.905 -.4134 -.4178  
320.095 -.4247 -.4344  
340.060 -.4136 -.4222

ALPHA ( 2 ) = -.393 BETA ( 1 ) = -4.006 MACH = 1.0958 RN/L = 4.3828 PO = 2105.7 P = 991.34

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4961 -.5102  
19.940 -.4915 -.5032  
39.905 -.4859 -.4898  
320.095 -.5051 -.5279  
340.060 -.4927 -.5122

ALPHA ( 2 ) = -.340 BETA ( 2 ) = -.016 MACH = 1.0958 RN/L = 4.3828 PO = 2105.7 P = 991.34

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4179 -.4250  
19.940 -.4162 -.4274  
39.905 -.4106 -.4169  
320.095 -.4195 -.4262  
340.060 -.4157 -.4262

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)BDFLAF UP

(RE4DB2)

ALPHA ( 2 ) = -.357 BETA ( 3 ) = 4.016 MACH = 1.0958 RN/L = 4.3828 PO = 2105.7 P = 991.34

SECTION ( 1 )BDFLAF UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4934	-.5080
19.940	-.4826	-.5024
39.905	-.4746	-.4872
320.095	-.4948	-.4909
340.060	-.4825	-.5133

ALPHA ( 3 ) = 4.026 BETA ( 1 ) = -.016 MACH = 1.1011 RN/L = 4.3891 PO = 2106.2 P = 985.19

SECTION ( 1 )BDFLAF UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4633	-.4760
19.940	-.4583	-.4765
39.905	-.4601	-.4728
320.095	-.4792	-.4848
340.060	-.4584	-.4733

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)BDFLAP UP

(RE4DB3) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = .000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.947 BETA ( 1 ) = -.003 MACH = 1.2463 RN/L = 4.4021 PO = 2107.0 P = 817.37

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3206 -.3324  
19.940 -.3170 -.3330  
39.905 -.3170 -.3218  
320.095 -.3305 -.3416  
340.060 -.3181 -.3360

ALPHA ( 2 ) = -.400 BETA ( 1 ) = -.000 MACH = 1.2440 RN/L = 4.3992 PO = 2107.0 P = 819.92

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3759 -.3847  
19.940 -.3720 -.3830  
39.905 -.3645 -.3654  
320.095 -.3875 -.4067  
340.060 -.3689 -.3847

ALPHA ( 2 ) = -.370 BETA ( 2 ) = -.003 MACH = 1.2440 RN/L = 4.3992 PO = 2107.0 P = 819.92

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3507 -.3508  
19.940 -.3419 -.3545  
39.905 -.3398 -.3445  
320.095 -.3527 -.3763  
340.060 -.3479 -.3634



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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)BDFLAP UP

(RE4DB3)

ALPHA ( 2 ) = -.420 BETA ( 3 ) = 4.019 MACH = 1.2440 RN/L = 4.3992 PO = 2107.0 P = 819.92

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3883	-.4071
19.940	-.3700	-.3897
39.905	-.3652	-.3749
320.095	-.3626	-.3830
340.060	-.3761	-.4155

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = -.012 MACH = 1.2457 RN/L = 4.4005 PO = 2107.7 P = 818.39

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3789	-.3929
19.940	-.3783	-.3909
39.905	-.3711	-.3768
320.095	-.3868	-.3946
340.060	-.3706	-.3878

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)BDFLAP UP

(RE4DB4) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.957 BETA ( 1 ) = -.003 MACH = 1.4002 RN/L = 4.3550 PO = 2109.8 P = 562.79

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2644 -.2709  
19.940 -.2624 -.2713  
39.905 -.2577 -.2644  
320.095 -.2768 -.2778  
340.060 -.2596 -.2711

ALPHA ( 2 ) = -.443 BETA ( 1 ) = -4.000 MACH = 1.3986 RN/L = 4.3460 PO = 2109.6 P = 664.22

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2718 -.2789  
19.940 -.2653 -.2687  
39.905 -.2610 -.2639  
320.095 -.2770 -.2940  
340.060 -.2718 -.2845

ALPHA ( 2 ) = -.406 BETA ( 2 ) = -.006 MACH = 1.3986 RN/L = 4.3460 PO = 2109.6 P = 664.22

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2639 -.2683  
19.940 -.2569 -.2674  
39.905 -.2546 -.2629  
320.095 -.2599 -.2783  
340.060 -.2610 -.2730

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)BDFLAP UP

(RE4084)

ALPHA ( 2 ) = -.446 BETA ( 3 ) = 4.019 MACH = 1.3986 RN/L = 4.3460 PO = 2109.6 P = 664.22

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3014	-.3147
19.940	-.2928	-.3024
39.905	-.2861	-.2893
320.095	-.2760	-.2977
340.060	-.2908	-.3216

ALPHA ( 3 ) = 3.953 BETA ( 1 ) = -.009 MACH = 1.3971 RN/L = 4.3340 PO = 2109.8 P = 665.69

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2751	-.2802
19.940	-.2699	-.2814
39.905	-.2677	-.2715
320.095	-.2751	-.3046
340.060	-.2703	-.2832

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)BDFLAP UP

(RE4DB5) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-0B = .000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -4.072 BETA ( 1 ) = .012 MACH = .58560 RN/L = 3.4206 PO = 2115.4 P = 1677.1

SECTION ( 1 )BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3712 -.4095  
19.940 -.3399 -.3923  
39.905 -.3624 -.3912  
320.095 -.3525 -.3919  
340.060 -.3782 -.4309

ALPHA ( 2 ) = -.284 BETA ( 1 ) = -4.003 MACH = .60257 RN/L = 3.4870 PO = 2114.9 P = 1654.8

SECTION ( 1 )BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3428 -.3694  
19.940 -.3515 -.3872  
39.905 -.3852 -.4174  
320.095 -.3547 -.3712  
340.060 -.3338 -.3489

ALPHA ( 2 ) = -.337 BETA ( 2 ) = .003 MACH = .60257 RN/L = 3.4870 PO = 2114.9 P = 1654.8

SECTION ( 1 )BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3317 -.3632  
19.940 -.3273 -.3649  
39.905 -.3515 -.3757  
320.095 -.3452 -.3664  
340.060 -.3290 -.3544

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)BDFLAP UP

(RE4DB5)

ALPHA ( 2 ) = -.367 BETA ( 3 ) = 4.025 MACH = .60257 RN/L = 2.4870 PO = 2114.9 P = 1654.8

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3389	-.3663
19.940	-.3305	-.3748
39.905	-.3399	-.3661
320.095	-.3477	-.4025
340.060	-.3371	-.3697

ALPHA ( 3 ) = 3.868 BETA ( 1 ) = .006 MACH = .59730 RN/L = 3.4653 PO = 2114.7 P = 1661.5

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3296	-.3490
19.940	-.3306	-.3571
39.905	-.3490	-.3684
320.095	-.3267	-.3553
340.060	-.3207	-.3527

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)BDFLAP UP

(RE4086) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -4.013 BETA ( 1 ) = .009 MACH = .89890 RN/L = 4.2040 PO = 2109.8 P = 1249.0

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3411 -.3767  
19.940 -.3323 -.3729  
39.905 -.3315 -.3637  
320.095 -.3561 -.3950  
340.060 -.3531 -.3837

ALPHA ( 2 ) = -.317 BETA ( 1 ) = -4.003 MACH = .90107 RN/L = 4.2091 PO = 2108.6 P = 1245.3

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3740 -.3955  
19.940 -.3739 -.4125  
39.905 -.3911 -.4237  
320.095 -.3728 -.3867  
340.060 -.3745 -.3993

ALPHA ( 2 ) = -.310 BETA ( 2 ) = .003 MACH = .90107 RN/L = 4.2091 PO = 2108.6 P = 1245.3

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3152 -.3495  
19.940 -.3145 -.3453  
39.905 -.3299 -.3522  
320.095 -.3500 -.3784  
340.060 -.3295 -.3507

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)BDFLAP UP

(RE4DB6)

ALPHA ( 2 ) = - .340 BETA ( 3 ) = 4.025 MACH .90107 RN/L = 4.2091 PO = 2108.6 P = 1245.3

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3922	-.4223
19.940	-.3841	-.4134
39.905	-.3775	-.4139
320.095	-.4134	-.4604
340.060	-.3962	-.4305

ALPHA ( 3 ) = 3.854 BETA ( 1 ) = .009 MACH = .90130 RN/L = 4.2066 PO = 2109.1 P = 1245.3

SECTION ( 1 ) BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3021	-.3329
19.940	-.3031	-.3332
39.905	-.3139	-.3404
320.095	-.3228	-.3541
340.060	-.3111	-.3306

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)BDFLAP UP

(RE4DB7) ( 14 JAN 75 )

# REFERENCE DATA

SREF = 2890.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

# PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -4.003 BETA ( 1 ) = -.012 MACH = 1.0992 RN/L = 4.3803 PO = 2102.7 P = 985.74

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0 10

PHI

.000 -.3923 -.4184  
19.940 -.3841 -.4242  
39.905 -.3928 -.4259  
320.095 -.4057 -.4328  
340.060 -.3870 -.4120

ALPHA ( 2 ) = -.393 BETA ( 1 ) = -4.006 MACH = 1.1052 RN/L = 4.3824 PO = 2102.7 P = 978.47

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4337 -.4667  
19.940 -.4282 -.4691  
39.905 -.4757 -.4952  
320.095 -.4548 -.4788  
340.060 -.4335 -.4672

ALPHA ( 2 ) = -.347 BETA ( 2 ) = -.019 MACH = 1.1052 RN/L = 4.3624 PO = 2102.7 P = 978.47

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3872 -.4123  
19.940 -.3846 -.4235  
39.905 -.3891 -.4220  
320.095 -.3965 -.4222  
340.060 -.3812 -.4087



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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)BDFLAP UP

(REVDB7)

ALPHA ( 2 ) = - .383 BETA ( 3 ) = 4.012 MACH = 1.1052 RN/L = 4.3824 PO = 2102.7 P = 978.47

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4397	-.4701
19.940	-.4297	-.4654
39.905	-.4302	-.4527
320.095	-.4497	-.4726
340.060	-.4294	-.4736

ALPHA ( 3 ) = 4.049 BETA ( 1 ) = -.012 MACH = 1.1075 RN/L = 4.3846 PO = 2102.7 P = 975.66

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4218	-.4522
19.940	-.4257	-.4647
39.905	-.4326	-.4606
320.095	-.4380	-.4610
340.060	-.4147	-.4426

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)BDFLAF UP

(RE4088) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.914 BETA ( 1 ) = -.003 MACH = 1.2513 RN/L = 4.3952 PO = 2104.1 P = 810.95

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3184 -.3493  
19.940 -.3112 -.3504  
39.905 -.3368 -.3606  
320.095 -.3335 -.3713  
340.060 -.3080 -.3432

ALPHA ( 2 ) = -.353 BETA ( 1 ) = -4.006 MACH = 1.2491 RN/L = 4.3920 PO = 2104.8 P = 813.54

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3363 -.3687  
19.940 -.3390 -.3685  
39.905 -.4070 -.4376  
320.095 -.3753 -.4062  
340.060 -.3355 -.3736

ALPHA ( 2 ) = -.367 BETA ( 2 ) = -.016 MACH = 1.2491 RN/L = 4.3920 PO = 2104.8 P = 813.54

SECTION ( 1 ) BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3369 -.3746  
19.940 -.3326 -.3754  
39.905 -.3481 -.3813  
320.095 -.3681 -.4075  
340.060 -.3312 -.3757

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)BOFLAP UP

(RE4088)

ALPHA ( 2 ) = - .393 BETA ( 3 ) = 4.016 MACH = 1.2491 RN/L = 4.3920 PO = 2104.8 P = 813.54

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3564	-.3982
19.940	-.3432	-.3807
39.905	-.3555	-.3767
320.095	-.3757	-.4220
340.060	-.3453	-.4027

ALPHA ( 3 ) = 4.053 BETA ( 1 ) = -.012 MACH = 1.2485 RN/L = 4.3917 PO = 2104.1 P = 813.89

SECTION ( 1 ) BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3476	-.3836
19.940	-.3420	-.3848
39.905	-.3612	-.3908
320.095	-.3885	-.4229
340.060	-.3342	-.3755

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ARC11-0231A90 OTS(SRB=N ORB NO.1 OUT)BDFLAP UP

(RE4DB9) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.934 BETA ( 1 ) = -.009 MACH = 1.4069 RN/L = 4.3421 PO = 2107.0 P = 655.71

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2532 -.2614  
19.940 -.2463 -.2780  
39.905 -.2596 -.2802  
320.095 -.2653 -.2859  
340.060 -.2436 -.2765

ALPHA ( 2 ) = -.426 BETA ( 1 ) = -4.006 MACH = 1.4068 RN/L = 4.3356 PO = 2107.7 P = 655.95

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2724 -.3028  
19.940 -.2629 -.2937  
39.905 -.2889 -.3105  
320.095 -.2928 -.3149  
340.060 -.2709 -.3082

ALPHA ( 2 ) = -.383 BETA ( 2 ) = -.016 MACH = 1.4068 RN/L = 4.3356 PO = 2107.7 P = 655.95

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2587 -.2905  
19.940 -.2553 -.2893  
39.905 -.2675 -.2910  
320.095 -.2580 -.2925  
340.060 -.2476 -.2849

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)BDFLAP UP

(RE4DB9)

ALPHA ( 2 ) = -.436 BETA ( 3 ) = 4.016 MACH = 1.4068 RN/L = 4.3356 PO = 2107.7 P = 655.95

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2765	-.3079
19.940	-.2651	-.2976
39.905	-.2787	-.2956
320.095	-.2800	-.3110
340.060	-.2611	-.3134

ALPHA ( 3 ) = 4.046 BETA ( 1 ) = -.012 MACH = 1.4068 RN/L = 4.3293 PO = 2108.4 P = 656.24

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2582	-.2911
19.940	-.2544	-.2958
39.905	-.2816	-.3082
320.095	-.2644	-.2977
340.060	-.2474	-.2837

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ARC11-0231A80 OTS(ET SPOIL(SRB=ORB=OFF)BDFLAP UP

(RE4DC0) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -4.029 BETA ( 1 ) = .015 MACH = .89710 RN/L = 4.2461 PO = 2124.6 P = 1260.2

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3128 -.3206  
19.940 -.3104 -.3118  
39.905 -.3013 -.3048  
320.095 -.3047 -.3066  
340.060 -.3238 -.3284

ALPHA ( 2 ) = -.241 BETA ( 1 ) = -4.009 MACH = .90283 RN/L = 4.25 6 PO = 2122.7 P = 1251.2

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3060 -.3049  
19.940 -.3056 -.3074  
39.905 -.3060 -.3070  
320.095 -.3058 -.3104  
340.060 -.3060 -.3080

ALPHA ( 2 ) = -.264 BETA ( 2 ) = -.003 MACH = .90283 RN/L = 4.2516 PO = 2122.7 P = 1251.2

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2957 -.2939  
19.940 -.2952 -.2981  
39.905 -.2973 -.2957  
320.095 -.2989 -.2935  
340.060 -.2982 -.2972

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ARC11-0231A80 OTS(ET SPOIL(SRB=ORB=OFF)BDFLAP UP

(RE4DC0)

ALPHA ( 2 ) = -.291 BETA ( 3 ) = 4.022 MACH = .90283 RN/L = 4.2516 PC = 2122.7 P = 1251.2

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2958	-.2936
19.940	-.2976	-.2920
39.905	-.2892	-.3027
320.095	-.2952	-.3026
340.060	-.2901	-.2907

ALPHA ( 3 ) = 3.980 BETA ( 1 ) = .016 MACH = .90920 RN/L = 4.2637 PC = 2123.2 P = 1244.2

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2769	-.2827
19.940	-.2841	-.2847
39.905	-.2806	-.2869
320.095	-.2771	-.2863
340.060	-.2763	-.2741

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(ET SPOIL(SRB=ORB=OFF)BDFLAP UP

(RE4DC1) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

FLV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -4.000 BETA ( 1 ) = .012 MACH = 1.1039 RN/L = 4.4630 PO = 2123.2 P = 989.56

SECTION ( 1 )BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3729 -.3737  
19.940 -.3724 -.3747  
39.905 -.3693 -.3707  
320.095 -.3755 -.3799  
340.060 -.3745 -.3750

ALPHA ( 2 ) = -.264 BETA ( 1 ) = -4.009 MACH = 1.1017 RN/L = 4.4844 PO = 2124.6 P = 992.96

SECTION ( 1 )BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4279 -.4277  
19.940 -.4297 -.4311  
39.905 -.4312 -.4299  
320.095 -.4351 -.4351  
340.060 -.4272 -.4282

ALPHA ( 2 ) = -.284 BETA ( 2 ) = .000 MACH = 1.1017 RN/L = 4.4844 PO = 2124.6 P = 992.96

SECTION ( 1 )BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3750 -.3763  
19.940 -.3760 -.3758  
39.905 -.3759 -.3775  
320.095 -.3791 -.3844  
340.060 -.3740 -.3763



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ARC11-0231A80 OTS(ET SPOIL(SRB=ORB=OFF)BDFLAP UP

(RE4001)

ALPHA ( 2 ) = - .297 BETA ( 3 ) = 4.022 MACH = 1.1017 RN/L = 4.4844 PO = 2124.6 P = 992.96

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4415	-.4417
19.940	-.4422	-.4408
39.905	-.4358	-.4355
320.095	-.4457	-.4482
340.060	-.4425	-.4428

ALPHA ( 3 ) = 3.910 BETA ( 1 ) = .016 MACH = 1.1026 RN/L = 4.4864 PO = 2123.9 P = 991.59

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4086	-.4093
19.940	-.4083	-.4079
39.905	-.4096	-.4108
320.095	-.4143	-.4160
340.060	-.4074	-.4074

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ARC11-0231A80 OTS(ET SPOIL(SRB=ORB=NOM)BDFLAP UP

(RE4DC2) ( 14 JAN 75 )

# REFERENCE DATA

# PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.996 BETA ( 1 ) = .016 MACH = .90230 RN/L = 4.2244 PO = 2111.2 P = 1245.1

SECTION ( 1 )BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4935 -.5188  
19.940 -.4856 -.5279  
39.905 -.5460 -.5637  
320.095 -.5356 -.5507  
340.060 -.4856 -.5104

ALPHA ( 2 ) = -.284 BETA ( 1 ) = -4.012 MACH = .90030 RN/L = 4.2241 PO = 2110.5 P = 1247.5

SECTION ( 1 )BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4931 -.5100  
19.940 -.4837 -.5156  
39.905 -.5200 -.5542  
320.095 -.5010 -.5101  
340.060 -.5040 -.5128

ALPHA ( 2 ) = -.360 BETA ( 2 ) = -.003 MACH = .90030 RN/L = 4.2241 PO = 2110.5 P = 1247.5

SECTION ( 1 )BDFLAP UPPER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4821 -.5114  
19.940 -.4957 -.5189  
39.905 -.5374 -.5713  
320.095 -.5328 -.5446  
340.060 -.4775 -.4856

6.7  
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ARC11-0231A80 OTS(ET SPOIL(SRB=ORB=NOM)BOFLAP UP

(RE4DC2)

ALPHA ( 2 ) = -.330 BETA ( 3 ) = 4.019 MACH = .90030 RN/L = 4.2241 PO = 2110.5 P = 1247.5

SECTION ( 1 )BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4773	-.5119
19.940	-.4653	-.5027
39.905	-.4913	-.5208
320.095	-.5144	-.5524
340.060	-.4662	-.5051

ALPHA ( 3 ) = 3.927 BETA ( 1 ) = .012 MACH = .89920 RN/L = 4.2176 PO = 2110.5 P = 1249.0

SECTION ( 1 )BOFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4516	-.4819
19.940	-.4386	-.4952
39.905	-.4863	-.5005
320.095	-.4957	-.5061
340.060	-.4456	-.4702

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(ET SPOIL(SRB=ORB=NOM)BDFLAP UP

(RE4DC3) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -4.033 BETA ( 1 ) = .016 MACH = 1.1036 RN/L = 4.4660 PO = 2114.0 P = 985.75

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4420 -.4685  
19.940 -.4360 -.4763  
39.905 -.4481 -.4806  
320.095 -.4694 -.4903  
340.060 -.4261 -.4555

ALPHA ( 2 ) = -.433 BETA ( 1 ) = -4.009 MACH = 1.1009 RN/L = 4.4637 PO = 2114.0 P = 989.05

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4861 -.5171  
19.940 -.4740 -.5212  
39.905 -.5231 -.5468  
320.095 -.5118 -.5289  
340.060 -.4860 -.5178

ALPHA ( 2 ) = -.446 BETA ( 2 ) = -.003 MACH = 1.1009 RN/L = 4.4637 PO = 2114.0 P = 989.05

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4306 -.4613  
19.940 -.4319 -.4742  
39.905 -.4419 -.4762  
320.095 -.4572 -.4734  
340.060 -.4127 -.4431

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ARC11-0231A80 OTS(ET SPOIL(SRB=ORB=NOM)BDFLAP JP

(RE4DC3)

ALPHA ( 2 ) = -.456 BETA ( 3 ) = 4.022 MACH = 1.1009 RN/L = 4.4637 PO = 2114.0 P = 989.05

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4900	-.5302
19.940	-.4714	-.5297
39.905	-.5024	-.5262
320.095	-.5614	-.5399
340.060	-.4956	-.5110

ALPHA ( 3 ) = 3.844 BETA ( 1 ) = .003 MACH = 1.1023 RN/L = 4.4653 PO = 2114.7 P = 997.65

SECTION ( 1 )BDFLAP UPPER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4678	-.5023
19.940	-.4678	-.5136
39.905	-.4874	-.5161
320.095	-.5132	-.5233
340.060	-.4532	-.4681

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ARC11-0231A80 OTS(SRB=N++ ORB=N )

BDFLAP LR

(RE4E01) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-OB = .000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -4.013 BETA ( 1 ) = -.019 MACH = .59860 RN/L = 3.3812 PO = 2110.5 P = 1656.4

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2395 -.2344  
19.940 -.2358 -.1947  
39.905 -.2243 -.2237  
320.095 -.2418 -.2564  
340.060 -.2484 -.2437

ALPHA ( 2 ) = -.314 BETA ( 1 ) = -4.034 MACH = .59953 RN/L = 3.3878 PO = 2110.3 P = 1655.0

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2495 -.2594  
19.940 -.2454 -.2300  
39.905 -.2307 -.2177  
320.095 -.2483 -.2572  
340.060 -.2443 -.2488

ALPHA ( 2 ) = -.340 BETA ( 2 ) = -.019 MACH = .59953 RN/L = 3.3878 PO = 2110.3 P = 1655.0

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2425 -.2305  
19.940 -.2358 -.2112  
39.905 -.2304 -.2304  
320.095 -.2389 -.2672  
340.060 -.2462 -.2449

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ARC11-0231A80 OTS(SRB=N++ ORB=N )

BDFLAP LR

(RE4E01)

ALPHA ( 2 ) = -.459 BETA ( 3 ) = 3.997 MACH = .59953 RN/L = 3.3878 PO = 2110.3 P = 1655.0

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2358	-.2134
19.940	-.2131	-.1959
39.905	-.2429	-.2439
320.095	-.2318	-.2481
340.060	-.2483	-.2436

ALPHA ( 3 ) = 4.039 BETA ( 1 ) = -.019 MACH = .59860 RN/L = 3.3874 PO = 2109.8 P = 1655.9

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2484	-.2432
19.940	-.2280	-.1974
39.905	-.2209	-.2222
320.095	-.2326	-.2622
340.060	-.2508	-.2644

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ARC11-0231A80 OTS(SRB=N++ ORB=N )

BDFLAP LR

(RE4E02) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SPEF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.901 BETA ( 1 ) = -.012 MACH = .90550 RN/L = 4.2328 PO = 2108.4 P = 1239.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3048 -.2856  
19.940 -.3034 -.2787  
39.905 -.2811 -.2804  
320.095 -.2921 -.3011  
340.060 -.3030 -.3008

ALPHA ( 2 ) = -.347 BETA ( 1 ) = -4.025 MACH = .90060 RN/L = 4.2176 PO = 2106.2 P = 1244.5

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3043 -.3386  
19.940 -.3053 -.2945  
39.905 -.2792 -.2776  
320.095 -.3092 -.3307  
340.060 -.3252 -.3474

ALPHA ( 2 ) = -.380 BETA ( 2 ) = -.009 MACH = .90060 RN/L = 4.2176 PO = 2106.2 P = 1244.5

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2758 -.2676  
19.940 -.2892 -.2679  
39.905 -.2750 -.2659  
320.095 -.2834 -.2906  
340.060 -.2749 -.2838



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ARC11-0231A80 OTS(SRB=N++ ORB=N ) BDFLAP LR (RE4E02)

ALPHA ( 2 ) = -.456 BETA ( 3 ) = 4.003 MACH = .90060 RN/L = 4.2176 PO = 2106.2 P = 1244.5

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2981	-.2789
19.940	-.3011	-.2911
39.905	-.3104	-.3261
320.095	-.2818	-.2805
340.060	-.2983	-.2903

ALPHA ( 3 ) = 3.977 BETA ( 1 ) = -.009 MACH = .89810 RN/L = 4.2116 PO = 2105.5 P = 1247.5

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2830	-.2662
19.940	-.2752	-.2569
39.905	-.2619	-.2684
320.095	-.2608	-.2846
340.060	-.2816	-.2846

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N++ ORB=N )

BDFLAP LR

(RE4E03) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-09 = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.920 BETA ( 1 ) = -.003 MACH = 1.0986 RN/L = 4.3008 PO = 2109.8 P = 989.84

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2689 -.2516  
19.940 -.2546 -.2320  
39.905 -.2346 -.2365  
320.095 -.2551 -.2763  
340.060 -.2650 -.2724

ALPHA ( 2 ) = -.621 BETA ( 1 ) = -4.006 MACH = 1.1024 RN/L = 4.3086 PO = 2109.6 P = 985.11

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2656 -.2554  
19.940 -.2836 -.2768  
39.905 -.2701 -.2617  
320.095 -.2691 -.2841  
340.060 -.2581 -.2480

ALPHA ( 2 ) = -.641 BETA ( 2 ) = .000 MACH = 1.1024 RN/L = 4.3086 PO = 2109.6 P = 985.11

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2531 -.2471  
19.940 -.2475 -.2334  
39.905 -.2353 -.2318  
320.095 -.2444 -.2667  
340.060 -.2488 -.2703

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ARC11-0231A80 OTS(SRB=N++ ORB=N )

BDFLAP LR

(RE4E03)

ALPHA ( 2 ) = -.492 BETA ( 3 ) = 4.009 MACH = 1.1024 RN/L = 4.3086 PO = 2109.6 P = 985.11

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2600	-.2486
19.940	-.2699	-.2725
39.905	-.2834	-.3109
320.095	-.2566	-.2679
340.060	-.2581	-.2539

ALPHA ( 3 ) = 3.944 BETA ( 1 ) = -.003 MACH = 1.1088 RN/L = 4.3102 PO = 2108.4 P = 976.70

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2809	-.2801
19.940	-.2785	-.2549
39.905	-.2672	-.2619
320.095	-.2729	-.2998
340.060	-.2856	-.2996

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ARC11-0231A80 OTS(SRB=N++ ORB=N )

BDFLAP L.R

(RE4E04) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -4.165 BETA ( 1 ) = .000 MACH = 1.2595 RN/L = 4.4972 PO = 2140.2 P = 815.83

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.1668 -.1562  
19.940 -.1613 -.1431  
39.905 -.1473 -.1459  
320.095 -.1533 -.1606  
340.060 -.1652 -.1662

ALPHA ( 2 ) = -.495 BETA ( 1 ) = -4.006 MACH = 1.2534 RN/L = 4.4312 PO = 2113.5 P = 812.32

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.1526 -.1691  
19.940 -.1561 -.1622  
39.905 -.1545 -.1371  
320.095 -.1582 -.1954  
340.060 -.1644 -.1387

ALPHA ( 2 ) = -.528 BETA ( 2 ) = .000 MACH = 1.2534 RN/L = 4.4312 PO = 2113.5 P = 812.32

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.1537 -.1417  
19.940 -.1557 -.1367  
39.905 -.1465 -.1466  
320.095 -.1502 -.1514  
340.060 -.1534 -.1425

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ARC11-0231A80 OTS(SRB=N++ ORB=N )

BDFLAP LR

(RE4E04)

ALPHA ( 2 ) = -.555 BETA ( 3 ) = 4.006 MACH = 1.2534 RN/L = 4.4312 PO = 2113.5 P = 812.32

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1550	-.1415
19.940	-.1661	-.1673
39.905	-.1744	-.2012
320.095	-.1406	-.1467
340.060	-.1557	-.1456

ALPHA ( 3 ) = 3.881 BETA ( 1 ) = .006 MACH = 1.2464 RN/L = 4.4257 PO = 2113.3 P = 819.82

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1712	-.1612
19.940	-.1710	-.1590
39.905	-.1691	-.1702
320.095	-.1664	-.1711
340.060	-.1682	-.1633

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ARC11-0231A80 OTS(SRB=N++ ORB=N )

BDFLAP LR

(RE4E05) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.950 BETA ( 1 ) = -.003 MACH = 1.4026 RN/L = 4.3103 PO = 2124.6 P = 665.27

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1124 -.1038  
19.940 -.1175 -.1023  
39.905 -.1130 -.1098  
320.095 -.1157 -.1151  
340.060 -.1156 -.1124

ALPHA ( 2 ) = -.436 BETA ( 1 ) = -4.009 MACH = 1.4051 RN/L = 4.3040 PO = 2123.0 P = 662.38

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1045 -.1076  
19.940 -.1124 -.1119  
39.905 -.1045 -.1107  
320.095 -.1041 -.1063  
340.060 -.0971 -.0896

ALPHA ( 2 ) = -.482 BETA ( 2 ) = -.003 MACH = 1.4051 RN/L = 4.3040 PO = 2123.0 P = 662.38

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1154 -.1032  
19.940 -.1089 -.0906  
39.905 -.0994 -.0981  
320.095 -.1091 -.1185  
340.060 -.1128 -.1180

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ARC11-0231A80 OTS(SRB=N++ ORB=N )

BDFLAP LR

(RE4E05)

ALPHA ( 2 ) = - .505    BETA ( 3 ) = 4.009    MACH = 1.4051    RN/L = 4.3040    PO = 2123.0    P = 662.38

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.0987	-.0892
19.940	-.1036	-.1047
39.905	-.1182	-.1397
320.095	-.0887	-.0928
340.060	-.1010	-.0915

ALPHA ( 3 ) = 3.881    BETA ( 1 ) = -.006    MACH = 1.4020    RN/L = 4.3020    PO = 2122.5    P = 665.10

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1018	-.0872
19.940	-.0890	-.0638
39.905	-.0815	-.0775
320.095	-.0905	-.1085
340.060	-.1013	-.1104

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T BULATED SOURCE DATA - 1A60

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ARC11-0231A90 OTS(SRB=N+ ORB=N ) BDFLAP LR

(RE4E06) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-0B = .000  
RM/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.848 BETA ( 1 ) = -.019 MACH = .59810 RN/L = 3.3852 PO = 2109.1 P = 1656.0

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

X0/LO 1.0230 1.0500

PHI

.000 -.2532 -.2361  
19.940 -.2412 -.2059  
39.905 -.2368 -.2238  
320.095 -.2439 -.2511  
340.060 -.2562 -.2471

ALPHA ( 2 ) = -.350 BETA ( 1 ) = -4.038 MACH = .59800 RN/L = 3.3843 PO = 2108.4 P = 1655.5

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

X0/LO 1.0230 1.0500

PHI

.000 -.2489 -.2545  
19.940 -.2476 -.2223  
39.905 -.2325 -.2093  
320.095 -.2503 -.2554  
340.060 -.2446 -.2520

ALPHA ( 2 ) = -.314 BETA ( 2 ) = -.022 MACH = .59800 RN/L = 3.3843 PO = 2108.4 P = 1655.5

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

X0/LO 1.0230 1.0500

PHI

.000 -.2459 -.2341  
19.940 -.2368 -.2112  
39.905 -.2415 -.2206  
320.095 -.2460 -.2538  
340.060 -.2577 -.2479



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ARC11-0231A80 CTS(SFB=N+ ORB=N ) BDFLAP LR (RE4E06)

ALPHA ( 2 ) = -.396 BETA ( 3 ) = 3.997 MACH = .59800 RN/L = 3.3843 PO = 2108.4 P = 1655.5

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2593	-.2331
19.940	-.2333	-.1926
39.905	-.2426	-.2526
320.095	-.2340	-.2575
340.060	-.2577	-.2546

ALPHA ( 3 ) = 3.970 BETA ( 1 ) = -.022 MACH = .59820 RN/L = 3.3879 PO = 2107.7 P = 1654.7

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2578	-.2489
19.940	-.2264	-.2003
39.905	-.2286	-.2211
320.095	-.2441	-.2649
340.060	-.2554	-.2611

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ARC11-0231A80 OTS(SRB=N+ ORB=N ) BDFLAP LR

(RE4E07) ( 14 JAN 75 )

# REFERENCE DATA

# PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.930 BETA ( 1 ) = -.009 MACH = .89930 RN/L = 4.2036 PO = 2101.3 P = 1243.3

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3163 -.3022  
19.940 -.3173 -.2946  
39.905 -.2948 -.2938  
320.095 -.3037 -.3160  
340.060 -.3176 -.3108

ALPHA ( 2 ) = -.376 BETA ( 1 ) = -4.028 MACH = .90183 RN/L = 4.2093 PO = 2101.3 P = 1239.9

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3126 -.3320  
19.940 -.3178 -.3042  
39.905 -.3054 -.2960  
320.095 -.3334 -.3471  
340.060 -.3377 -.3519

ALPHA ( 2 ) = -.330 BETA ( 2 ) = -.012 MACH = .90183 RN/L = 4.2093 PO = 2101.3 P = 1239.9

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3274 -.3105  
19.940 -.3140 -.3010  
39.905 -.2999 -.2940  
320.095 -.3037 -.3156  
340.060 -.3173 -.3127

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ARC11-0231A80 OTS(SRB=N+ ORB=N )

BDFLAP LR

(RE4E07)

ALPHA ( 2 ) = -.330 BETA ( 3 ) = 4.003 MACH = .90183 RN/L = 4.2093 PO = 2101.3 P = 1239.9

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3222	-.3116
19.940	-.3268	-.3181
39.905	-.3445	-.3475
320.095	-.3056	-.2858
340.060	-.3184	-.3092

ALPHA ( 3 ) = 3.927 BETA ( 1 ) = -.016 MACH = .90100 RN/L = 4.2086 PO = 2101.3 P = 1241.0

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3109	-.2856
19.940	-.2973	-.2806
39.905	-.2869	-.2850
320.095	-.2843	-.3032
340.060	-.3040	-.2993

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ARC11-0231A80 OTS(SRB=N+ ORB=N ) BDFLAP LR

(RE4E08) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.907 BETA ( 1 ) = .000 MACH = 1.0989 RN/L = 4.3130 PO = 2107.0 P = 988.16

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2962 -.2868  
19.940 -.2875 -.2633  
39.905 -.2715 -.2658  
320.095 -.2854 -.3076  
340.060 -.2957 -.3108

ALPHA ( 2 ) = -.515 BETA ( 1 ) = -4.003 MACH = 1.1012 RN/L = 4.3135 PO = 2106.7 P = 985.16

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2921 -.2837  
19.940 -.3089 -.3022  
39.905 -.2983 -.2910  
320.095 -.2926 -.3077  
340.060 -.2859 -.2756

ALPHA ( 2 ) = -.525 BETA ( 2 ) = .003 MACH = 1.1012 RN/L = 4.3135 PO = 2106.7 P = 985.16

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2821 -.2687  
19.940 -.2774 -.2557  
39.905 -.2689 -.2602  
320.095 -.2754 -.2943  
340.060 -.2781 -.2903

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ARC11-0231A80 OTS(SRB=N+ ORB=N ) BDFLAP LR (RE4E08)

ALPHA ( 2 ) = -.426 BETA ( 3 ) = 4.012 MACH = 1.1012 RN/L = 4.3135 PO = 2106.7 P = 985.16

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2959	-.2858
19.940	-.3013	-.3033
39.905	-.3126	-.3372
320.095	-.2893	-.3059
340.060	-.2934	-.2885

ALPHA ( 3 ) = 3.881 BETA ( 1 ) = .006 MACH = 1.1017 RN/L = 4.3151 PO = 2105.5 P = 984.01

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3101	-.3068
19.940	-.3096	-.2878
39.905	-.2971	-.2925
320.095	-.3037	-.3282
340.060	-.3066	-.3283

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ARC11-0231A80 OTS(SRB=N+ ORB=N )

BDFLAP LR

(RE4E09) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.897 BETA ( 1 ) = .006 MACH = 1.2489 RN/L = 4.4001 PO = 2111.9 P = 816.48

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1960 -.1845  
19.940 -.1894 -.1684  
39.905 -.1783 -.1741  
320.095 -.1861 -.1943  
340.060 -.1909 -.1922

ALPHA ( 2 ) = -.482 BETA ( 1 ) = -4.006 MACH = 1.2477 RN/L = 4.3993 PO = 2111.9 P = 817.80

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1775 -.1750  
19.940 -.1824 -.1834  
39.905 -.1745 -.1712  
320.095 -.1952 -.1837  
340.060 -.1644 -.1739

ALPHA ( 2 ) = -.519 BETA ( 2 ) = .003 MACH = 1.2477 RN/L = 4.3993 PO = 2111.9 P = 817.80

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1762 -.1670  
19.940 -.1791 -.1636  
39.905 -.1721 -.1736  
320.095 -.1697 -.1716  
340.060 -.1773 -.1656

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ARC11-0231A80 OTS(SRB=N+ ORB=N ) BDFLAP LR (RE4E09)

ALPHA ( 2 ) = -.462 BETA ( 3 ) = 4.009 MACH = 1.2477 RN/L = 4.3933 PO = 2111.9 P = 817.80

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1883	-.1757
19.940	-.1970	-.2026
39.905	-.2014	-.2313
320.095	-.1668	-.1790
340.060	-.1882	-.1763

ALPHA ( 3 ) = 3.854 BETA ( 1 ) = .006 MACH = 1.2493 RN/L = 4.3962 PO = 2111.9 P = 816.04

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1855	-.1751
19.940	-.1860	-.1694
39.905	-.1871	-.1849
320.095	-.1791	-.1839
340.060	-.1820	-.1809

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ARC11-0231A80 OTS(SRB=N+ ORB=N )

BDFLAP LR

(REHE10) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.904 BETA ( 1 ) = -.006 MACH = 1.4001 RN/L = 4.2924 PO = 2119.7 P = 665.99

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.1384 -.1276  
19.940 -.1396 -.1217  
39.905 -.1340 -.1328  
320.095 -.1386 -.1415  
340.060 -.1393 -.1353

ALPHA ( 2 ) = -.406 BETA ( 1 ) = -4.009 MACH = 1.4020 RN/L = 4.2945 PO = 2120.9 P = 664.59

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.1211 -.1202  
19.940 -.1353 -.1375  
39.905 -.1281 -.1350  
320.095 -.1225 -.1260  
340.060 -.1154 -.1039

ALPHA ( 2 ) = -.370 BETA ( 2 ) = .000 MACH = 1.4020 RN/L = 4.2945 PO = 2120.9 P = 664.59

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.1313 -.1152  
19.940 -.1222 -.1060  
39.905 -.1162 -.1152  
320.095 -.1233 -.1338  
340.060 -.1323 -.1320



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ARC11-0231A80 OTS(SRB=N+ ORB=N ) BDFLAP LR (RE4E10)

ALPHA ( 2 ) = -.453 BETA ( 3 ) = 4.012 MACH = 1.4020 RN/L = 4.2945 PO = 2120.9 P = 664.59

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1148 -.1039  
19.940 -.1236 -.1122  
39.905 -.1339 -.1505  
320.095 -.1037 -.1077  
340.060 -.1151 -.1030

ALPHA ( 3 ) = 3.944 BETA ( 1 ) = -.006 MACH = 1.3972 RN/L = 4.2925 PO = 2121.1 P = 669.17

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1208 -.1066  
19.940 -.1066 -.0880  
39.905 -.0970 -.0940  
320.095 -.1093 -.1276  
340.060 -.1174 -.1301

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ARC11-0231A80 OTS(SRB=N ORB=N+) BDFLAP LR

(RE4E11) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-OB = .000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.957 BETA ( 1 ) = -.016 MACH = .59560 RN/L = 3.3845 PO = 2105.5 P = 1656.4

SECTION ( 11BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2509 -.2430  
19.940 -.2440 -.2137  
39.905 -.2427 -.2307  
320.095 -.2429 -.2529  
340.060 -.2560 -.2492

ALPHA ( 2 ) = -.337 BETA ( 1 ) = -4.041 MACH = .59810 RN/L = 3.3979 PO = 2105.7 P = 1653.4

SECTION ( 11BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2579 -.2580  
19.940 -.2455 -.2334  
39.905 -.2442 -.2213  
320.095 -.2508 -.2632  
340.060 -.2438 -.2544

ALPHA ( 2 ) = -.383 BETA ( 2 ) = -.022 MACH = .59810 RN/L = 3.3979 PO = 2105.7 P = 1653.4

SECTION ( 11BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2571 -.2355  
19.940 -.2419 -.2079  
39.905 -.2355 -.2290  
320.095 -.2405 -.2517  
340.060 -.2484 -.2453

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ARC11-0231A80 OTS(SRB=N ORB=N+ ) BDFLAP LR (RE4E11)

ALPHA ( 2 ) = -.400 BETA ( 3 ) = 3.997 MACH = .59810 RN/L = 3.3979 PO = 2105.7 P = 1653.4

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2497	-.2162
19.940	-.2155	-.1938
39.905	-.2354	-.2391
59.095	-.2290	-.2406
79.060	-.2387	-.2422

ALPHA ( 3 ) = 4.125 BETA ( 1 ) = -.025 MACH = .59930 RN/L = 3.4056 PO = 2106.2 P = 1652.2

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2510	-.2347
19.940	-.2332	-.2020
39.905	-.2196	-.2237
59.095	-.2268	-.2523
79.060	-.2449	-.2506

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ARC11-0231A80 OTS(SRB=N ORB=N+ )

BDFLAP LR

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(RE4E12) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0070 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -4.062 BETA ( 1 ) = -.012 MACH = .89970  
DEPENDENT VARIABLE CP

RN/L = 4.2040 PO = 2099.9 P = 1242.0

SECTION ( 1 ) BDFLAP LOWER SURF.

XO/LO 1.0230 1.0500

PHI  
.000 -.3400 -.3174  
19.940 -.3250 -.3051  
39.905 -.3010 -.2972  
320.095 -.3105 -.3163  
340.060 -.3188 -.3193

ALPHA ( 2 ) = -.383 BETA ( 1 ) = -4.028 MACH = .90127  
DEPENDENT VARIABLE CP

RN/L = 4.2082 PO = 2100.1 P = 1240.0

SECTION ( 1 ) BDFLAP LOWER SURF.

XO/LO 1.0230 1.0500

PHI  
.000 -.3162 -.3434  
19.940 -.3171 -.3063  
39.905 -.2963 -.2985  
320.095 -.3337 -.3497  
340.060 -.3454 -.3627

ALPHA ( 2 ) = -.383 BETA ( 2 ) = -.016 MACH = .90127  
DEPENDENT VARIABLE CP

RN/L = 4.2082 PO = 2100.1 P = 1240.0

SECTION ( 1 ) BDFLAP LOWER SURF.

XO/LO 1.0230 1.0500

PHI  
.000 -.3052 -.2950  
19.940 -.3178 -.2877  
39.905 -.3062 -.2876  
320.095 -.3092 -.3142  
340.060 -.2975 -.2956

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ARC11-0231A80 OTS(SRB=N ORB=N+ ) BOFLAP LR (REWE12)

ALPHA ( 2 ) = -.453 BETA ( 3 ) = 4.000 MACH = .90127 RN/L = 4.2082 PO = 2100.1 P = 1240.0

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3193	-.3051
19.940	-.3183	-.3235
39.905	-.3439	-.3625
320.095	-.3105	-.2913
340.060	-.2995	-.3109

ALPHA ( 3 ) = 3.947 BETA ( 1 ) = -.012 MACH = .90020 RN/L = 4.1982 PO = 2099.2 P = 1240.9

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3129	-.3011
19.940	-.3031	-.2884
39.905	-.2834	-.2802
320.095	-.2830	-.3017
340.060	-.3047	-.3033

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ARC11-0231A80 OTS(SRB=N ORB=N+) BDFLAP LR

(RE+E13) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.950 BETA ( 1 ) = .006 MACH = 1.0974 RN/L = 4.3157 PO = 2105.5 P = 989.31

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3408 -.3308  
19.940 -.3290 -.3054  
39.905 -.3179 -.3108  
59.870 -.3235 -.3417  
79.835 -.3332 -.3446

ALPHA ( 2 ) = -.509 BETA ( 1 ) = -4.066 MACH = 1.1004 RN/L = 4.3182 PO = 2105.5 P = 985.62

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3219 -.3153  
19.940 -.3421 -.3339  
39.905 -.3303 -.3252  
59.870 -.3223 -.3351  
79.835 -.3167 -.3079

ALPHA ( 2 ) = -.552 BETA ( 2 ) = -.056 MACH = 1.1004 RN/L = 4.3182 PO = 2105.5 P = 985.62

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3221 -.3078  
19.940 -.3160 -.2895  
39.905 -.3080 -.3091  
59.870 -.3044 -.3224  
79.835 -.3175 -.3240

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ARC11-0231A80 OTS(SRB=N ORB=N) SDFLAP LR (REWE13)

ALPHA ( 2 ) = -.486 BETA ( 3 ) = 3.950 MACH = 1.1004 RN/L = 4.3182 PO = 2105.5 P = 985.62

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3293	-.3160
19.940	-.3327	-.3379
39.905	-.3431	-.3642
320.095	-.3106	-.3290
340.060	-.3253	-.3223

ALPHA ( 3 ) = 4.029 BETA ( 1 ) = -.069 MACH = 1.1030 RN/L = 4.3205 PO = 2104.8 P = 982.12

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3463	-.3401
19.940	-.3470	-.3276
39.905	-.3375	-.3387
320.095	-.3358	-.3522
340.060	-.3468	-.3508

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ARC11-0231A80 OTS(SRB=N ORB=N+) BDFLAP LR

(RE4E14) ( 14 JAN 75 )

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BPEF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.963 BETA ( 1 ) = .006 MACH = 1.2512 RN/L = 4.3841 PO = 2109.1 P = 812.89

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2248 -.2144  
19.940 -.2237 -.2056  
39.905 -.2167 -.2102  
320.095 -.2203 -.2203  
340.060 -.2209 -.2218

ALPHA ( 2 ) = -.492 BETA ( 1 ) = -4.006 MACH = 1.2479 RN/L = 4.3874 PO = 2110.0 P = 816.96

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2094 -.1998  
19.940 -.2244 -.2173  
39.905 -.2137 -.2063  
320.095 -.1975 -.2132  
340.060 -.1921 -.1872

ALPHA ( 2 ) = -.466 BETA ( 2 ) = .003 MACH = 1.2479 RN/L = 4.3874 PO = 2110.0 P = 816.96

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2079 -.1987  
19.940 -.2085 -.1986  
39.905 -.2065 -.2063  
320.095 -.1960 -.1935  
340.060 -.1988 -.1895



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ARC11-0231A80 OTS(SRB=N ORB=N+ ) BOFLAP L? (RE4E14)

ALPHA ( 2 ) = -.522 BETA ( 3 ) = 4.009 MACH = 1.2479 RN/L = 4.3874 PO = 2110.0 P = 816.96

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2184	-.2064
19.940	-.2233	-.2306
39.905	-.2309	-.2530
320.095	-.1996	-.2082
340.060	-.2185	-.2051

ALPHA ( 3 ) = 3.996 BETA ( 1 ) = .000 MACH = 1.2453 RN/L = 4.3815 PO = 2109.8 P = 819.58

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2188	-.2088
19.940	-.2224	-.2098
39.905	-.2240	-.2227
320.095	-.2076	-.2090
340.060	-.2109	-.2039

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ARC11-0231A80 OTS(SRB=N ORB=N+ ) BDFLAP LR

(RE4E15) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.910 BETA ( 1 ) = -.006 MACH = 1.4040 RN/L = 4.2694 PO = 2117.6 P = 661.67

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1628 -.1552  
19.940 -.1644 -.1544  
39.905 -.1637 -.1635  
320.095 -.1583 -.1539  
340.060 -.1607 -.1516

ALPHA ( 2 ) = -.409 BETA ( 1 ) = -4.009 MACH = 1.4005 RN/L = 4.2782 PO = 2119.0 P = 665.37

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1469 -.1382  
19.940 -.1544 -.1524  
39.905 -.1506 -.1577  
320.095 -.1421 -.1443  
340.060 -.1413 -.1214

ALPHA ( 2 ) = -.446 BETA ( 2 ) = .000 MACH = 1.4005 RN/L = 4.2782 PO = 2119.0 P = 665.37

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1538 -.1470  
19.940 -.1555 -.1384  
39.905 -.1541 -.1561  
320.095 -.1549 -.1569  
340.060 -.1580 -.1517

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ARC11-0231A80 OTS(SRB=N ORB=N+ )

BDFLAP LR

(RE4E15)

ALPHA ( 2 ) = -.509 BETA ( 3 ) = 4.009 MACH = 1.4005 RN/L = 4.2782 PO = 2119.0 P = 665.37

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1395	-.1332
19.940	-.1500	-.1410
39.905	-.1548	-.1673
320.095	-.1338	-.1393
340.060	-.1430	-.1339

ALPHA ( 3 ) = 3.848 BETA ( 1 ) = -.006 MACH = 1.4000 RN/L = 4.2776 PO = 2121.1 P = 666.55

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1494	-.1341
19.940	-.1350	-.1112
39.905	-.1159	-.1282
320.095	-.1160	-.1504
340.060	-.1321	-.1077

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ARC11-0231A80 OTS(SRB=N ORB=N-) BDFLAP I.R

(RE4E16) ( 14 JAN 75 )

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.986 BETA ( 1 ) = -.012 MACH = .90160 RN/L = 4.2050 PO = 2099.2 P = 1239.1

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3322 -.3206  
19.940 -.3320 -.3116  
39.905 -.3024 -.3040  
320.095 -.3118 -.3203  
340.060 -.3233 -.3247

ALPHA ( 2 ) = -.350 BETA ( 1 ) = -4.031 MACH = .90357 RN/L = 4.2104 PO = 2098.7 P = 1236.1

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3205 -.3465  
19.940 -.3205 -.3034  
39.905 -.2962 -.2895  
320.095 -.3272 -.3389  
340.060 -.3451 -.3574

ALPHA ( 2 ) = -.301 BETA ( 2 ) = -.016 MACH = .90357 RN/L = 4.2104 PO = 2098.7 P = 1236.1

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3096 -.2979  
19.940 -.3193 -.2939  
39.905 -.3092 -.2959  
320.095 -.3103 -.3110  
340.060 -.3008 -.2929

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ARC11-0231A80 OTS(SRB=N ORB=N- ) BDFLAP LR (RE4E16)

ALPHA ( 2 ) = -.317 BETA ( 3 ) = 4.000 MACH = .90357 RN/L = 4.2104 PO = 2098.7 P = 1236.1

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI		
.000	-.3134	-.3060
19.940	-.3183	-.3153
39.905	-.3258	-.3486
320.095	-.2937	-.2903
340.060	-.3002	-.2996

ALPHA ( 3 ) = 3.947 BETA ( 1 ) = -.019 MACH = .90070 RN/L = 4.2030 PO = 2098.5 P = 1239.8

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI		
.000	-.3190	-.2930
19.940	-.3094	-.2837
39.905	-.2923	-.2920
320.095	-.2878	-.3090
340.060	-.3134	-.2982

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ARC11-0231A80 OTS(SRB=N ORB=N-) BDFLAP \_R

(RE4E17) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -4.020 BETA ( 1 ) = -.069 MACH = 1.0966 RN/L = 4.3161 PO = 2104.8 P = 990.02

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3420 -.3425  
19.940 -.3325 -.3059  
39.905 -.3162 -.3101  
320.095 -.3263 -.3454  
340.060 -.3391 -.3531

ALPHA ( 2 ) = -.479 BETA ( 1 ) = -4.069 MACH = 1.1010 RN/L = 4.3147 PO = 2104.3 P = 984.44

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3275 -.3203  
19.940 -.3526 -.3405  
39.905 -.3381 -.3299  
320.095 -.3245 -.3418  
340.060 -.3183 -.3119

ALPHA ( 2 ) = -.489 BETA ( 2 ) = -.056 MACH = 1.1010 RN/L = 4.3147 PO = 2104.3 P = 984.44

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3159 -.3189  
19.940 -.3122 -.2984  
39.905 -.3071 -.3022  
320.095 -.3071 -.3334  
340.060 -.3199 -.3330

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ARC11-0231A80 OTS(SRB=N ORB=N- )

BDFLAP LR

(RE4E17)

ALPHA ( 2 ) = -.486 BETA ( 3 ) = 3.947 MACH = 1.1010 RN/L = 4.3147 PO = 2104.3 P = 984.44

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3324	-.3230
19.940	-.3383	-.3437
39.905	-.3491	-.3731
320.095	-.3256	-.3441
340.060	-.3285	-.3327

ALPHA ( 3 ) = 3.983 BETA ( 1 ) = -.063 MACH = 1.1056 RN/L = 4.3164 PO = 2104.1 P = 978.63

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3325	-.3477
19.940	-.3284	-.3124
39.905	-.3217	-.3193
320.095	-.3274	-.3514
340.060	-.3371	-.3561

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ARC11-0231A80 OTS(SRB=N ORB=N- )

BDFLAP LR

(RE4E18) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.953 BETA ( 1 ) = .000 MACH = 1.2490 RN/L = 4.3771 PO = 2108.4 P = 815.07

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2349 -.2259  
19.940 -.2212 -.2033  
39.905 -.2144 -.2149  
320.095 -.2258 -.2396  
340.060 -.2321 -.2446

ALPHA ( 2 ) = -.429 BETA ( 1 ) = -4.006 MACH = 1.2479 RN/L = 4.3753 PO = 2108.4 P = 816.19

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2152 -.2181  
19.940 -.2380 -.2304  
39.905 -.2252 -.2237  
320.095 -.2115 -.2201  
340.060 -.2057 -.1985

ALPHA ( 2 ) = -.423 BETA ( 2 ) = .003 MACH = 1.2479 RN/L = 4.3753 PO = 2108.4 P = 816.19

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2313 -.2236  
19.940 -.2228 -.2007  
39.905 -.2133 -.2070  
320.095 -.2180 -.2159  
340.060 -.2278 -.2220



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ARC11-0231A80 OTS(SRB=N ORB=N- )

BDFLAP I.R

(RE4E18)

ALPHA ( 2 ) = -.416 BETA ( 3 ) = 4.009 MACH = 1.2479 RN/L = 4.3753 PO = 2108.4 P = 816.19

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2298	-.2148
19.940	-.2415	-.2466
39.905	-.2482	-.2707
320.095	-.2119	-.2263
340.060	-.2265	-.2232

ALPHA ( 3 ) = 3.993 BETA ( 1 ) = .003 MACH = 1.2456 RN/L = 4.3674 PO = 2108.4 P = 818.72

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2361	-.2294
19.940	-.2266	-.2100
39.905	-.2250	-.2271
320.095	-.2265	-.2376
340.060	-.2343	-.2353

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ARC11-0231A80 OTS(SRB=N ORB=N- ) BOFLAP LR

(RE4E19) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SPEF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.848 BETA ( 1 ) = -.006 MACH = 1.4069 RN/L = 4.2698 PO = 2120.4 P = 659.90

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1910 -.1853  
19.940 -.1901 -.1673  
39.905 -.1804 -.1745  
320.095 -.1931 -.1946  
340.060 -.1935 -.1935

ALPHA ( 2 ) = -.357 BETA ( 1 ) = -4.009 MACH = 1.4043 RN/L = 4.2657 PO = 2120.4 P = 662.32

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1471 -.1438  
19.940 -.1675 -.1656  
39.905 -.1732 -.1741  
320.095 -.1521 -.1589  
340.060 -.1448 -.1376

ALPHA ( 2 ) = -.363 BETA ( 2 ) = .000 MACH = 1.4043 RN/L = 4.2657 PO = 2120.4 P = 662.32

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1834 -.1790  
19.940 -.1677 -.1458  
39.905 -.1629 -.1601  
320.095 -.1815 -.1895  
340.060 -.1842 -.1916

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ARC11-0231A80 OTS(SRB=N ORB=N- )

BDFLAP LR

(RE4E19)

ALPHA ( 2 ) = -.462 BETA ( 3 ) = 4.012 MACH = 1.4043 RN/L = 4.2657 PO = 2120.4 P = 662.32

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1596	-.1462
19.940	-.1652	-.1619
39.905	-.1830	-.2011
320.095	-.1638	-.1688
340.060	-.1603	-.1575

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = -.003 MACH = 1.4018 RN/L = 4.2745 PO = 2122.5 P = 665.25

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1693	-.1743
19.940	-.1559	-.1291
39.905	-.1422	-.1425
320.095	-.1623	-.1779
340.060	-.1727	-.1821

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(REWE20) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.868 BETA ( 1 ) = -.016 MACH = .59200 RN/L = 3.3619 PO = 2105.5 P = 1661.0

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2547 -.2474  
19.940 -.2429 -.2208  
39.905 -.2441 -.2403  
320.095 -.2466 -.2636  
340.060 -.2616 -.2631

ALPHA ( 2 ) = -.327 BETA ( 1 ) = -4.038 MACH = .59820 RN/L = 3.3862 PO = 2105.3 P = 1652.9

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2478 -.2358  
19.940 -.2420 -.2120  
39.905 -.2301 -.2185  
320.095 -.2552 -.2551  
340.060 -.2348 -.2304

ALPHA ( 2 ) = -.291 BETA ( 2 ) = -.022 MACH = .59820 RN/L = 3.3862 PO = 2105.3 P = 1652.9

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2637 -.2528  
19.940 -.2433 -.2136  
39.905 -.2351 -.2269  
320.095 -.2454 -.2598  
340.060 -.2610 -.2661

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ARC11-0231A80 QTS(SRB=N ORB=N )

BCFLAP LR

(RE4E20)

ALPHA ( 2 ) = -.386 BETA ( 3 ) = 3.994 MACH = .59820 RN/L = 3.3862 PO = 2105.3 P = 1652.9

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2353	-.1995
19.940	-.2210	-.1863
39.905	-.2363	-.2418
320.095	-.2298	-.2441
340.060	-.2333	-.2251

ALPHA ( 3 ) = 4.016 BETA ( 1 ) = -.022 MACH = .60330 RN/L = 3.4092 PO = 2105.5 P = 1646.4

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2409	-.2322
19.940	-.2230	-.2046
39.905	-.2225	-.2200
320.095	-.2352	-.2523
340.060	-.2500	-.2440

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E21) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.977 BETA ( 1 ) = -.016 MACH = .90170 RN/L = 4.2042 PO = 2099.2 P = 1238.9

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3219 -.3137  
19.940 -.3261 -.3015  
39.905 -.3031 -.2989  
320.095 -.3138 -.3221  
340.060 -.3199 -.3215

ALPHA ( 2 ) = -.327 BETA ( 1 ) = -4.028 MACH = .90323 RN/L = 4.2094 PO = 2099.4 P = 1237.0

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3142 -.3242  
19.940 -.3183 -.3092  
39.905 -.2975 -.2939  
320.095 -.3283 -.3415  
340.060 -.3308 -.3439

ALPHA ( 2 ) = -.317 BETA ( 2 ) = -.012 MACH = .90323 RN/L = 4.2094 PO = 2099.4 P = 1237.0

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3257 -.3021  
19.940 -.3342 -.3031  
39.905 -.3109 -.3011  
320.095 -.3163 -.3194  
340.060 -.3063 -.3043

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP LR

(RE4E21)

ALPHA ( 2 ) = -.350 BETA ( 3 ) = 4.000 MACH = .90323 RN/L = 4.2094 PO = 2099.4 P = 1237.0

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3132	-.3038
19.940	-.3208	-.3238
39.905	-.3375	-.3554
320.095	-.2987	-.2881
340.060	-.3078	-.2954

ALPHA ( 3 ) = 3.977 BETA ( 1 ) = -.012 MACH = .90240 RN/L = 4.2041 PO = 2098.5 P = 1237.5

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3141	-.2926
19.940	-.3090	-.2832
39.905	-.2926	-.2880
320.095	-.2880	-.3054
340.060	-.3031	-.2913

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E22) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.937 BETA ( 1 ) = -.063 MACH = 1.0978 RN/L = 4.3175 PO = 2104.8 P = 988.46

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3401 -.3280  
19.940 -.3297 -.3031  
39.905 -.3140 -.3103  
320.095 -.3248 -.3449  
340.060 -.3344 -.3583

ALPHA ( 2 ) = -.525 BETA ( 1 ) = -4.069 MACH = 1.1008 RN/L = 4.3153 PO = 2104.6 P = 984.73

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3230 -.3228  
19.940 -.3524 -.3391  
39.905 -.3357 -.3282  
320.095 -.3259 -.3401  
340.060 -.3166 -.3099

ALPHA ( 2 ) = -.439 BETA ( 2 ) = -.056 MACH = 1.1008 RN/L = 4.3153 PO = 2104.6 P = 984.73

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3277 -.3203  
19.940 -.3205 -.2982  
39.905 -.3115 -.3039  
320.095 -.3117 -.3340  
340.060 -.3232 -.3431



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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAF LR

(RE4E22)

ALPHA ( 2 ) = -.482 BETA ( 3 ) = 3.950 MACH = 1.1008 RN/L = 4.3153 PO = 2104.6 P = 984.73

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3285	-.3182
19.940	-.3354	-.3407
39.905	-.3465	-.3727
320.095	-.3205	-.3399
340.060	-.3264	-.3285

ALPHA ( 3 ) = 3.963 BETA ( 1 ) = -.063 MACH = 1.1046 RN/L = 4.3189 PO = 2104.1 P = 979.83

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3461	-.3449
19.940	-.3427	-.3167
39.905	-.3310	-.3278
320.095	-.3351	-.3589
340.060	-.3451	-.3580

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E23) ( 14 JAN 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
 LREF = 1290.3000 IN. YMRP = .0000 IN.  
 BREF = 1290.3000 IN. ZMRP = .0000 IN.  
 SCALE = .0200

## PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
 RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.917 BETA ( 1 ) = .003 MACH = 1.2460 RN/L = 4.3726 PO = 2108.4 P = 818.30

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2418 -.2349  
 19.940 -.2306 -.2118  
 39.905 -.2228 -.2169  
 320.035 -.2306 -.2412  
 340.060 -.2360 -.2455

ALPHA ( 2 ) = -.446 BETA ( 1 ) = -.4006 MACH = 1.2483 RN/L = 4.3668 PO = 2108.9 P = 816.03

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2129 -.2163  
 19.940 -.2305 -.2246  
 39.905 -.2221 -.2220  
 320.035 -.2065 -.2170  
 340.060 -.2014 -.1949

ALPHA ( 2 ) = -.456 BETA ( 2 ) = .003 MACH = 1.2483 RN/L = 4.3668 PO = 2108.9 P = 816.03

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2238 -.2123  
 19.940 -.2203 -.2027  
 39.905 -.2162 -.2136  
 320.035 -.2102 -.2113  
 340.060 -.2177 -.2091

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR (RE4E23)

ALPHA ( 2 ) = -.439 BETA ( 3 ) = 4.012 MACH = 1.2483 RN/L = 4.3668 PO = 2108.9 P = 816.03

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2237	-.2137
19.940	-.2346	-.2458
39.905	-.2433	-.2660
320.095	-.2078	-.2209
340.060	-.2243	-.2165

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = .000 MACH = 1.2455 RN/L = 4.3668 PO = 2109.1 P = 819.16

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2312	-.2204
19.940	-.2288	-.2117
39.905	-.2288	-.2312
320.095	-.2208	-.2276
340.060	-.2263	-.2226

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E24) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.884 BETA ( 1 ) = -.003 MACH = 1.4001 RN/L = 4.2484 PO = 2114.0 P = 664.19

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.1860 -.1755  
19.940 -.1874 -.1676  
39.905 -.1809 -.1739  
320.095 -.1851 -.1856  
340.060 -.1880 -.1808

ALPHA ( 2 ) = -.370 BETA ( 1 ) = -4.009 MACH = 1.3999 RN/L = 4.2511 PO = 2113.8 P = 664.35

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.1506 -.1529  
19.940 -.1733 -.1704  
39.905 -.1702 -.1715  
320.095 -.1499 -.1476  
340.060 -.1404 -.1292

ALPHA ( 2 ) = -.370 BETA ( 2 ) = .000 MACH = 1.3999 RN/L = 4.2511 PO = 2113.8 P = 664.35

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.1756 -.1642  
19.940 -.1637 -.1441  
39.905 -.1613 -.1637  
320.095 -.1712 -.1797  
340.060 -.1739 -.1806

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR (RE4E24)

ALPHA ( 2 ) = -.429 BETA ( 3 ) = 4.012 MACH = 1.3999 RN/L = 4.2511 PO = 2113.8 P = 664.35

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1536	-.1405
19.940	-.1630	-.1572
39.905	-.1741	-.1690
320.095	-.1499	-.1555
340.060	-.1525	-.1448

ALPHA ( 3 ) = 3.894 BETA ( 1 ) = .000 MACH = 1.3947 RN/L = 4.2558 PO = 2114.0 P = 669.27

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1632	-.1587
19.940	-.1454	-.1269
39.905	-.1388	-.1372
320.095	-.1536	-.1684
340.060	-.1599	-.1808

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ARC11-0231A80 OTS(SRB=N- CRB=N ) BDFLAF LR

(RE4E25) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -4.020 BETA ( 1 ) = -.063 MACH = 1.0964 RN/L = 4.3166 PO = 2104.1 P = 989.88

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3727 -.3702  
19.940 -.3591 -.3324  
39.905 -.3439 -.3395  
320.095 -.3513 -.3757  
340.060 -.3548 -.3820

ALPHA ( 2 ) = -.482 BETA ( 1 ) = -4.069 MACH = 1.1000 RN/L = 4.3184 PO = 2103.9 P = 985.34

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3518 -.3441  
19.940 -.3744 -.3619  
39.905 -.3591 -.3579  
320.095 -.3464 -.3646  
340.060 -.3589 -.3377

ALPHA ( 2 ) = -.489 BETA ( 2 ) = -.059 MACH = 1.1000 RN/L = 4.3184 PO = 2103.9 P = 985.34

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3501 -.3443  
19.940 -.3457 -.3248  
39.905 -.3339 -.3327  
320.095 -.3351 -.3580  
340.060 -.3487 -.3677

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ARC11-0231A80 OTS:SRB=N- ORB=N )

BDFLAP LR

(RE4E25)

ALPHA ( 2 ) = -.453 BETA ( 3 ) = 3.950 MACH = 1.1000 RN/L = 4.3184 PO = 2103.9 P = 985.34

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3557	-.3448
19.940	-.3540	-.3697
39.905	-.3689	-.3923
320.095	-.3413	-.3621
340.060	-.3527	-.3540

ALPHA ( 3 ) = 4.029 BETA ( 1 ) = -.059 MACH = 1.1031 RN/L = 4.3201 PO = 2102.0 P = 980.74

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3734	-.3744
19.940	-.3673	-.3423
39.905	-.3540	-.3556
320.095	-.3570	-.3853
340.060	-.3720	-.3836

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N- ORB=N ) BDFLAP LR

(REWE26) ( 14 JAN 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

## PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.983 BETA ( 1 ) = .000 MACH = 1.2472 RN/L = 4.3616 PO = 2107.7 P = 816.70

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2669 -.2563  
19.940 -.2512 -.2299  
39.905 -.2426 -.2402  
320.095 -.2526 -.2661  
340.060 -.2612 -.2696

ALPHA ( 2 ) = -.443 BETA ( 1 ) = -4.006 MACH = 1.2481 RN/L = 4.3581 PO = 2107.7 P = 815.72

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2352 -.2437  
19.940 -.2503 -.2450  
39.905 -.2363 -.2428  
320.095 -.2316 -.2443  
340.060 -.2247 -.2200

ALPHA ( 2 ) = -.426 BETA ( 2 ) = .003 MACH = 1.2481 RN/L = 4.3581 PO = 2107.7 P = 815.72

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2464 -.2347  
19.940 -.2445 -.2265  
39.905 -.2378 -.2371  
320.095 -.2353 -.2367  
340.060 -.2355 -.2307



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ARC11-0231A80 OTS(SRB=N- ORB=N )

BOFLAP LR

(RE4E26)

ALPHA ( 2 ) = -.456 BETA ( 3 ) = 4.016 MACH = 1.2481 RN/L = 4.3581 PO = 2107.7 P = 815.72

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2409	-.2299
19.940	-.2580	-.2647
39.905	-.2610	-.2832
320.095	-.2251	-.2388
340.060	-.2425	-.2349

ALPHA ( 3 ) = 4.020 BETA ( 1 ) = -.003 MACH = 1.2443 RN/L = 4.3536 PO = 2107.0 P = 819.62

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2526	-.2455
19.940	-.2480	-.2355
39.905	-.2480	-.2513
320.095	-.2409	-.2486
340.060	-.2484	-.2474

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N- ORB=N ) BDFLAP LR

(RE4E27) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-IB = .000 ELV-CB = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.805 BETA ( 1 ) = .000 MACH = 1.4005 RN/L = 4.2336 PO = 2109.8 P = 662.52

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2179 -.2107  
19.940 -.2155 -.2011  
39.905 -.2104 -.2031  
320.095 -.2191 -.2131  
340.060 -.2156 -.2041

ALPHA ( 2 ) = -.353 BETA ( 1 ) = -4.006 MACH = 1.3984 RN/L = 4.2397 PO = 2110.7 P = 664.83

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.1645 -.1600  
19.940 -.1854 -.1858  
39.905 -.1923 -.1928  
320.095 -.1711 -.1827  
340.060 -.1555 -.1484

ALPHA ( 2 ) = -.367 BETA ( 2 ) = .000 MACH = 1.3984 RN/L = 4.2397 PO = 2110.7 P = 664.83

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2031 -.1918  
19.940 -.1888 -.1886  
39.905 -.1842 -.1855  
320.095 -.1962 -.2041  
340.060 -.2050 -.2011

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ARC11-0231A80 OTS(SRB=N- ORB=N )

BDFLAP LR

(RE4E27)

ALPHA ( 2 ) = - .400 BETA ( 3 ) = 4.012 MACH = 1.3984 RN/L = 4.2397 PO = 2110.7 P = 664.83

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1694	-.1611
19.940	-.1789	-.1708
39.905	-.1945	-.2120
320.095	-.1745	-.1836
340.060	-.1787	-.1703

ALPHA ( 3 ) = 3.983 BETA ( 1 ) = .000 MACH = 1.3983 RN/L = 4.2365 PO = 2109.8 P = 664.56

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1889	-.1796
19.940	-.1689	-.1432
39.905	-.1576	-.1607
320.095	-.1761	-.1872
340.060	-.1797	-.1947

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E28) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = .000 ELV-08 = .000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -4.000 BETA ( 1 ) = -.016 MACH = .59820 RN/L = 3.3864 PO = 2123.2 P = 1666.9

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2321 -.2142  
19.940 -.2179 -.1970  
39.905 -.2162 -.2024  
320.095 -.2051 -.2047  
340.060 -.2298 -.2165

ALPHA ( 2 ) = -.264 BETA ( 1 ) = -4.034 MACH = .59700 RN/L = 3.3816 PO = 2123.7 P = 1668.9

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2395 -.2179  
19.940 -.2267 -.2070  
39.905 -.2124 -.2019  
320.095 -.2092 -.2007  
340.060 -.2162 -.2053

ALPHA ( 2 ) = -.261 BETA ( 2 ) = -.019 MACH = .59700 RN/L = 3.3816 PO = 2123.7 P = 1668.9

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2255 -.2066  
19.940 -.2195 -.1931  
39.905 -.2097 -.1928  
320.095 -.1991 -.1964  
340.560 -.2228 -.2113

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E28)

ALPHA ( 2 ) = -.274 BETA ( 3 ) = 3.991 MACH = .59700 RN/L = 3.3816 PO = 2123.7 P = 1668.9

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2196	-.1949
19.940	-.2132	-.1803
39.905	-.2118	-.2040
320.095	-.1945	-.1969
340.060	-.2180	-.2091

ALPHA ( 3 ) = 4.013 BETA ( 1 ) = -.019 MACH = .59700 RN/L = 3.3862 PO = 2124.6 P = 1669.6

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2187	-.2058
19.940	-.2048	-.1875
39.905	-.1963	-.1906
320.095	-.1917	-.1877
340.060	-.2180	-.2051

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) BDFLAP LR

(RE4E29) ( 14 JAN 75 )

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LPEF = 1290.3000 IN. YMRP = .0000 IN.  
BPEF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.980 BETA ( 1 ) = -.006 MACH = .90100 RN/L = 4.2493 PO = 2121.1 P = 1252.7

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2923 -.2769  
19.940 -.2885 -.2748  
39.905 -.2892 -.2728  
320.095 -.2621 -.2559  
340.060 -.2941 -.2763

ALPHA ( 2 ) = -.320 BETA ( 1 ) = -4.022 MACH = .90373 RN/L = 4.2509 PO = 2123.0 P = 1250.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2981 -.3142  
19.940 -.2908 -.2810  
39.905 -.2827 -.2657  
320.095 -.2641 -.2552  
340.060 -.3028 -.3092

ALPHA ( 2 ) = -.310 BETA ( 2 ) = -.009 MACH = .90373 RN/L = 4.2509 PO = 2123.0 P = 1250.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2709 -.2605  
19.940 -.2649 -.2539  
39.905 -.2466 -.2772  
320.095 -.2566 -.2466  
340.060 -.2741 -.2614

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E29)

ALPHA ( 2 ) = -.297 BETA ( 3 ) = 4.006 MACH = .90373 RN/L = 4.2509 PO = 2123.0 P = 1250.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2789	-.2670
19.940	-.2899	-.2638
39.905	-.2840	-.2718
320.095	-.2653	-.2473
340.060	-.2827	-.2657

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = -.009 MACH = .89810 RN/L = 4.2418 PO = 2119.7 P = 1255.9

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2711	-.2522
19.940	-.2652	-.2522
39.905	-.2613	-.2608
320.095	-.2354	-.2407
340.060	-.2816	-.2611

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E30) (14 JAN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -4.016 BETA ( 1 ) = -.003 MACH = 1.0992 RN/L = 4.3334 PO = 2116.2 P = 992.05

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3548 -.3514  
19.940 -.3441 -.3238  
39.905 -.3295 -.3193  
320.095 -.3185 -.3164  
340.060 -.3498 -.3481

ALPHA ( 2 ) = -.370 BETA ( 1 ) = -4.006 MACH = 1.1030 RN/L = 4.2966 PO = 2115.2 P = 987.00

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3399 -.3366  
19.940 -.3678 -.3526  
39.905 -.3487 -.3354  
320.095 -.3343 -.3368  
340.060 -.3333 -.3255

ALPHA ( 2 ) = -.343 BETA ( 2 ) = .003 MACH = 1.1030 RN/L = 4.2966 PO = 2115.2 P = 987.00

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3354 -.3371  
19.940 -.3277 -.3151  
39.905 -.3146 -.3086  
320.095 -.3015 -.3047  
340.060 -.3369 -.3336

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E30)

ALPHA ( 2 ) = -.370 BETA ( 3 ) = 4.009 MACH = 1.1030 RN/L = 4.2966 PO = 2115.2 P = 987.00

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3503	-.3405
19.940	-.3594	-.3597
39.905	-.3591	-.3647
320.095	-.3265	-.3295
340.060	-.3475	-.3443

ALPHA ( 3 ) = 3.894 BETA ( 1 ) = -.003 MACH = 1.1097 RN/L = 4.2923 PO = 2114.0 P = 978.29

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3541	-.3571
19.940	-.3446	-.3323
39.905	-.3264	-.3235
320.095	-.3193	-.3209
340.060	-.3547	-.3500

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E31) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-06 = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.970 BETA ( 1 ) = -.003 MACH = 1.2502 RN/L = 4.3628 PO = 2115.4 P = 816.45

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2723 -.2668  
19.940 -.2561 -.2386  
39.905 -.2474 -.2500  
320.095 -.2548 -.2537  
340.060 -.2785 -.2785

ALPHA ( 2 ) = -.330 BETA ( 1 ) = -4.006 MACH = 1.2515 RN/L = 4.3608 PO = 2116.1 P = 815.32

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2655 -.2631  
19.940 -.2894 -.2754  
39.905 -.2684 -.2625  
320.095 -.2539 -.2636  
340.060 -.2454 -.2432

ALPHA ( 2 ) = -.317 BETA ( 2 ) = .000 MACH = 1.2515 RN/L = 4.3608 PO = 2116.1 P = 815.32

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2790 -.2773  
19.940 -.2616 -.2500  
39.905 -.2433 -.2424  
320.095 -.2402 -.2369  
340.060 -.2772 -.2727

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E31)

ALPHA ( 2 ) = -.370 BETA ( 3 ) = 4.012 MACH = 1.2515 RN/L = 4.3608 PO = 2116.1 P = 815.32

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2652	-.2553
19.940	-.2922	-.2918
39.905	-.2863	-.2909
320.095	-.2446	-.2408
340.060	-.2674	-.2633

ALPHA ( 3 ) = 3.950 BETA ( 1 ) = -.003 MACH = 1.2493 RN/L = 4.3586 PO = 2116.9 P = 818.02

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2870	-.2856
19.940	-.2721	-.2543
39.905	-.2539	-.2550
320.095	-.2512	-.2465
340.060	-.2768	-.2732

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E32) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-IB = .000 ELV-CB = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -4.043 BETA ( 1 ) = .000 MACH = 1.4047 RN/L = 4.2434 PO = 2120.4 P = 661.94

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2708 -.2632  
19.940 -.2686 -.2479  
39.905 -.2514 -.2434  
320.095 -.2616 -.2444  
340.060 -.2626 -.2476

ALPHA ( 2 ) = -.195 BETA ( 1 ) = -4.012 MACH = 1.4028 RN/L = 4.2458 PO = 2120.4 P = 663.72

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1910 -.1922  
19.940 -.2196 -.2145  
39.905 -.2535 -.2195  
320.095 -.2319 -.2383  
340.060 -.1993 -.1990

ALPHA ( 2 ) = -.211 BETA ( 2 ) = .000 MACH = 1.4028 RN/L = 4.2458 PO = 2120.4 P = 663.72

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2444 -.2474  
19.940 -.2251 -.2097  
39.905 -.1759 -.2011  
320.095 -.2271 -.2173  
340.060 -.2394 -.2380

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E32)

ALPHA ( 2 ) = .083 BETA ( 3 ) = 4.006 MACH = 1.4028 RN/L = 4.2458 PO = 2120.4 P = 663.72

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2013	-.1941
19.940	-.2227	-.2218
39.905	-.2342	-.2487
320.095	-.2209	-.2112
340.060	-.2078	-.2137

ALPHA ( 3 ) = 4.092 BETA ( 1 ) = .000 MACH = 1.3983 RN/L = 4.2463 PO = 2120.4 P = 667.87

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2397	-.2431
19.940	-.2223	-.2054
39.905	-.1934	-.2006
320.095	-.2127	-.2075
340.060	-.2337	-.2291

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E33) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-OB = .000  
RN/L = 1.750 MACH = .600

ALPHA ( 1 ) = -3.953 BETA ( 1 ) = -.003 MACH = .59560 RN/L = 1.7428 PO = 1060.9 P = 834.63

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2223 -.2073  
19.940 -.2161 -.1799  
39.905 -.2114 -.1936  
320.095 -.2019 -.1971  
340.060 -.2243 -.2079

ALPHA ( 2 ) = -.271 BETA ( 1 ) = -4.044 MACH = .59443 RN/L = 1.7407 PO = 1060.2 P = 834.82

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2515 -.2342  
19.940 -.2349 -.2149  
39.905 -.2116 -.2095  
320.095 -.2036 -.2036  
340.060 -.2349 -.2225

ALPHA ( 2 ) = -.284 BETA ( 2 ) = -.031 MACH = .59443 RN/L = 1.7407 PO = 1060.2 P = 834.82

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2083 -.1854  
19.940 -.2036 -.1773  
39.905 -.1994 -.1860  
320.095 -.1897 -.1858  
340.060 -.2050 -.1793

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E33)

ALPHA ( 2 ) = - .343 BETA ( 3 ) = 3.964 MACH = .59443 RN/L = 1.7407 PO = 1060.2 P = 834.82

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2319	-.2119
19.210	-.2154	-.1871
39.905	-.2154	-.2078
320.095	-.1989	-.1989
340.060	-.2333	-.2229

ALPHA ( 3 ) = 3.963 BETA ( 1 ) = -.003 MACH = .59300 RN/L = 1.7403 PO = 1060.2 P = 835.76

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2289	-.2144
19.940	-.2158	-.1889
39.905	-.2075	-.1999
320.095	-.1952	-.1966
340.060	-.2316	-.2172

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E34) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 2.250 MACH = .900

ALPHA ( 1 ) = -3.947 BETA ( 1 ) = .000 MACH = .90000 RN/L = 2.1578 PO = 1061.6 P = 627.70

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2971 -.2832  
19.940 -.2891 -.2816  
39.905 -.2885 -.2788  
320.095 -.2601 -.2554  
340.060 -.3019 -.2833

ALPHA ( 2 ) = -.264 BETA ( 1 ) = -4.044 MACH = .90150 RN/L = 2.1576 PO = 1060.4 P = 625.98

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3066 -.3169  
19.940 -.3020 -.2904  
39.905 -.2922 -.2776  
320.095 -.2659 -.2613  
340.060 -.3010 -.2962

ALPHA ( 2 ) = -.271 BETA ( 2 ) = -.031 MACH = .90150 RN/L = 2.1576 PO = 1060.4 P = 625.98

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2922 -.2794  
19.940 -.2907 -.2816  
39.905 -.2910 -.2867  
320.095 -.2612 -.2549  
340.060 -.2988 -.2875



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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E34)

ALPHA ( 2 ) = -.304 BETA ( 3 ) = 3.984 MACH = .90150 RN/L = 2.1576 PO = 1060.4 P = 625.98

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2908	-.2788
19.940	-.2892	-.2760
39.905	-.2860	-.2709
320.095	-.2557	-.2501
340.060	-.2940	-.2848

ALPHA ( 3 ) = 3.990 BETA ( 1 ) = -.003 MACH = .90350 RN/L = 2.1629 PO = 1061.6 P = 625.33

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2793	-.2639
19.940	-.2762	-.2583
39.905	-.2758	-.2742
320.095	-.2501	-.2461
340.060	-.2853	-.2710

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E35) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = .000 ELV-08 = .000  
RN/L = 2.250 MACH = 1.100

ALPHA ( 1 ) = -3.957 BETA ( 1 ) = .000 MACH = 1.0935 RN/L = 2.2424 PO = 1058.8 P = 499.91

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3970 -.3910  
19.940 -.3862 -.3610  
39.905 -.3660 -.3522  
320.095 -.3511 -.3464  
340.060 -.3879 -.3605

ALPHA ( 2 ) = -.225 BETA ( 1 ) = -4.009 MACH = 1.0961 RN/L = 2.2501 PO = 1061.4 P = 499.48

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3739 -.3659  
19.940 -.4041 -.3823  
39.905 -.3810 -.3648  
320.095 -.3619 -.3660  
340.060 -.3662 -.3543

ALPHA ( 2 ) = -.225 BETA ( 2 ) = .000 MACH = 1.0961 RN/L = 2.2501 PO = 1061.4 P = 499.48

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3742 -.3765  
19.940 -.3671 -.3540  
39.905 -.3520 -.3410  
320.095 -.3331 -.3355  
340.060 -.3735 -.3661

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E35)

ALPHA ( 2 ) = -.231 BETA ( 3 ) = 4.012 MACH = 1.0961 RN/L = 2.2501 PO = 1061.4 P = 499.48

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3893	-.3775
19.940	-.3957	-.3923
39.905	-.3922	-.3953
320.095	-.3568	-.3596
340.060	-.3869	-.3779

ALPHA ( 3 ) = 4.016 BETA ( 1 ) = -.003 MACH = 1.1017 RN/L = 2.2510 PO = 1050.9 P = 495.81

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3905	-.3915
19.940	-.3848	-.3671
39.905	-.3708	-.3597
320.095	-.3569	-.3512
340.060	-.3895	-.3795

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E36) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 2.250 MACH = 1.250

ALPHA ( 1 ) = -3.993 BETA ( 1 ) = .003 MACH = 1.2488 RN/L = 2.2675 PO = 1060.9 P = 410.21

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2899 -.2798  
19.940 -.2694 -.2502  
39.905 -.2634 -.2647  
320.095 -.2639 -.2649  
340.060 -.2839 -.2858

ALPHA ( 2 ) = -.145 BETA ( 1 ) = -4.003 MACH = 1.2488 RN/L = 2.2680 PO = 1060.9 P = 410.21

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2636 -.2543  
19.940 -.2951 -.2822  
39.905 -.2816 -.2690  
320.095 -.2620 -.2749  
340.060 -.2580 -.2507

ALPHA ( 2 ) = -.129 BETA ( 2 ) = .003 MACH = 1.2488 RN/L = 2.2680 PO = 1060.9 P = 410.21

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2899 -.2899  
19.940 -.2729 -.2616  
39.905 -.2531 -.2556  
320.095 -.2453 -.2519  
340.060 -.2899 -.2849

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E36)

ALPHA ( 2 ) = -.175 BETA ( 3 ) = 4.009 MACH = 1.2468 RN/L = 2.2680 PO = 1060.9 P = 410.21

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2794	-.2693
19.940	-.3062	-.3043
39.905	-.2954	-.3011
320.095	-.2538	-.2538
340.060	-.2838	-.2712

ALPHA ( 3 ) = 4.072 BETA ( 1 ) = .003 MACH = 1.2466 RN/L = 2.2672 PO = 1060.9 P = 409.77

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2976	-.2954
19.940	-.2835	-.2652
39.905	-.2649	-.2642
320.095	-.2597	-.2566
340.060	-.2888	-.2784

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E37) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 2.250 MACH = 1.400

ALPHA ( 1 ) = -4.013 BETA ( 1 ) = .003 MACH = 1.3998 RN/L = 2.2349 PO = 1061.6 P = 333.70

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2834 -.2760  
19.940 -.2794 -.2630  
39.905 -.2632 -.2528  
320.095 -.2695 -.2542  
340.060 -.2797 -.2587

ALPHA ( 2 ) = -.241 BETA ( 1 ) = -4.006 MACH = 1.3997 RN/L = 2.2285 PO = 1060.0 P = 333.23

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2061 -.2018  
19.940 -.2327 -.2265  
39.905 -.2589 -.2317  
320.095 -.2334 -.2492  
340.060 -.2178 -.2086

ALPHA ( 2 ) = -.264 BETA ( 2 ) = .000 MACH = 1.3997 RN/L = 2.2285 PO = 1060.0 P = 333.23

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2473 -.2461  
19.940 -.2221 -.2071  
39.905 -.1961 -.2036  
320.095 -.2300 -.2275  
340.060 -.2510 -.2464

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E37)

ALPHA ( 2 ) = -.267 BETA ( 3 ) = 4.009 MACH = 1.3997 RN/L = 2.2285 PO = 1060.0 P = 333.23

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2225	-.2102
19.940	-.2396	-.2352
39.905	-.2504	-.2603
320.095	-.2391	-.2267
340.060	-.2300	-.2235

ALPHA ( 3 ) = 4.010 BETA ( 1 ) = .003 MACH = 1.3956 RN/L = 2.2367 PO = 1060.2 P = 335.22

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2493	-.2490
19.940	-.2310	-.2131
39.905	-.2073	-.2141
320.095	-.2228	-.2188
340.060	-.2434	-.2391

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E38) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-OB = .000  
RN/L = 1.750 MACH = .600

ALPHA ( 1 ) = -3.980 BETA ( 1 ) = -.003 MACH = .59910 RN/L = 1.7583 PO = 1060.9 P = 832.35

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2588 -.2385  
19.940 -.2414 -.2053  
39.905 -.2353 -.2176  
320.095 -.2410 -.2444  
340.060 -.2480 -.2439

ALPHA ( 2 ) = -.314 BETA ( 1 ) = -.044 MACH = .59907 RN/L = 1.7686 PO = 1066.1 P = 836.42

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2408 -.2395  
19.940 -.2374 -.2132  
39.905 -.2246 -.2098  
320.095 -.2377 -.2464  
340.060 -.2334 -.2334

ALPHA ( 2 ) = -.317 BETA ( 2 ) = -.009 MACH = .59907 RN/L = 1.7686 PO = 1066.1 P = 836.42

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2427 -.2247  
19.940 -.2287 -.2053  
39.905 -.2300 -.2186  
320.095 -.2262 -.2450  
340.060 -.2487 -.2320



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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E38)

ALPHA ( 2 ) = -.327 BETA ( 3 ) = 3.981 MACH = .59907 RN/L = 1.7686 PO = 1066.1 P = 836.42

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2424	-.2130
19.940	-.2207	-.1954
39.905	-.2309	-.2371
320.095	-.2249	-.2454
340.060	-.2533	-.2424

ALPHA ( 3 ) = 3.950 BETA ( 1 ) = -.003 MACH = .60350 RN/L = 1.7801 PO = 1066.6 P = 833.90

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2433	-.2106
19.940	-.2226	-.1827
39.905	-.2260	-.2166
320.095	-.2277	-.2464
340.060	-.2393	-.2346

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDF\_LAP LR

(RE4E39) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-CB = .000  
RN/L = 2.250 MACH = .900

ALPHA ( 1 ) = -3.986 BETA ( 1 ) = .003 MACH = .89730 RN/L = 2.1589 PO = 1063.0 P = 630.39

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3254 -.3148  
19.940 -.3222 -.3015  
39.905 -.3031 -.2983  
320.095 -.3024 -.3200  
340.060 -.3224 -.3116

ALPHA ( 2 ) = -.294 BETA ( 1 ) = -4.044 MACH = .90407 RN/L = 2.1638 PO = 1061.8 P = 625.06

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3217 -.3361  
19.940 -.3178 -.3010  
39.905 -.3078 -.3030  
320.095 -.3296 -.3476  
340.060 -.3357 -.3525

ALPHA ( 2 ) = -.310 BETA ( 2 ) = -.028 MACH = .90407 RN/L = 2.1638 PO = 1061.8 P = 625.05

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3433 -.3171  
19.940 -.3367 -.3108  
39.905 -.3175 -.3085  
320.095 -.3145 -.3235  
340.060 -.3242 -.3101

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP LR

(RE4E39)

ALPHA ( 2 ) = -.320 BETA ( 3 ) = 3.981 MACH = .90407 RN/L = 2.1638 PO = 1061.8 P = 625.06

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3199	-.3175
19.940	-.3366	-.3151
39.905	-.3286	-.3445
320.095	-.2962	-.2922
340.060	-.3147	-.3028

ALPHA ( 3 ) = 3.970 BETA ( 1 ) = .000 MACH = .90120 RN/L = 2.1596 PO = 1060.2 P = 626.02

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3123	-.2903
19.940	-.3147	-.2824
39.905	-.2993	-.2929
320.095	-.2820	-.2975
340.060	-.3075	-.2931

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ARC11-0231A8C OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E40) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SPEF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = .000 ELV-08 = .000  
RN/L = 2.250 MACH = 1.100

ALPHA ( 1 ) = -3.801 BETA ( 1 ) = -.005 MACH = 1.0940 RN/L = 2.2469 PO = 1059.5 P = 499.92

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3844 -.3834  
19.940 -.3740 -.3437  
39.905 -.3561 -.3470  
320.095 -.3659 -.3858  
340.060 -.3797 -.3918

ALPHA ( 2 ) = -.304

MACH = 1.0971

RN/L = 2.2528 PO = 1061.4 P = 498.93

SECTION ( 1 ) BDFLAP LOW

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3609 -.3609  
19.940 -.3850 -.3730  
39.905 -.3716 -.3646  
320.095 -.3560 -.3702  
340.060 -.3502 -.3398

ALPHA ( 2 ) = -.267

BETA ( 2 ) =

.003 MACH = 1.0971

RN/L = 2.2528 PO = 1061.4 P = 498.93

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3679 -.3766  
19.940 -.3619 -.3368  
39.905 -.3515 -.3405  
320.095 -.3454 -.3746  
340.060 -.3626 -.3790

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR (RE4E40)

ALPHA ( 2 ) = -.390 BETA ( 3 ) = 4.016 MACH = 1.0971 RN/L = 2.2528 PO = 1061.4 P = 498.93

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3694	-.3579
19.940	-.3737	-.3747
39.905	-.3798	-.3986
320.095	-.3545	-.3733
340.060	-.3654	-.3627

ALPHA ( 3 ) = 3.983 BETA ( 1 ) = .003 MACH = 1.1029 RN/L = 2.2596 PO = 1063.7 P = 495.39

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3819	-.3782
19.940	-.3738	-.3498
39.905	-.3662	-.3612
320.095	-.3651	-.3855
340.060	-.3753	-.3746

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BUFLAP LR

(RECEIVED) (14 JAN 75)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-IB = .000 ELV-OB = .000  
RN/L = 2.500 MACH = .600

ALPHA ( 1 ) = -4.000 BETA ( 1 ) = -.022 MACH = .60170 RN/L = 2.5509 PO = 1557.4 P = 1219.4

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2268 -.2131  
19.940 -.2177 -.1980  
39.905 -.2058 -.1998  
320.095 -.1994 -.2012  
340.060 -.2296 -.2199

ALPHA ( 2 ) = -.261 BETA ( 1 ) = -4.041 MACH = .60297 RN/L = 2.5529 PO = 1556.0 P = 1217.1

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2309 -.2143  
19.940 -.2244 -.2069  
39.905 -.2064 -.1967  
320.095 -.2022 -.1981  
340.060 -.2133 -.2055

ALPHA ( 2 ) = -.271 BETA ( 2 ) = -.025 MACH = .60297 RN/L = 2.5529 PO = 1556.0 P = 1217.1

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2136 -.1995  
19.940 -.2109 -.1855  
39.905 -.2105 -.1896  
320.095 -.1960 -.1905  
340.060 -.2154 -.1918

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E41)

ALPHA ( 2 ) = -.343 BETA ( 3 ) = 3.991 MACH = .60297 RN/L = 2.5529 PO = 1556.0 P = 1217.1

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2127	-.1895
19.940	-.2050	-.1723
39.905	-.2091	-.1955
320.095	-.1929	-.1884
340.060	-.2136	-.2000

ALPHA ( 3 ) = 3.944 BETA ( 1 ) = -.022 MACH = .60230 RN/L = 2.5548 PO = 1556.7 P = 1218.3

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2117	-.1994
19.940	-.2044	-.1779
39.305	-.1962	-.1884
320.095	-.1866	-.1843
340.060	-.2150	-.2003

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP \_R

(RE4E42) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = .000  
RN/L = 3.250 MACH = .900

ALPHA ( 1 ) = -3.930 BETA ( 1 ) = .003 MACH = .90330 RN/L = 3.1425 PC = 1558.1 P = 918.01

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3100 -.2943  
19.940 -.3024 -.2889  
39.905 -.2978 -.2830  
320.095 -.2645 -.2621  
340.060 -.3100 -.2942

ALPHA ( 2 ) = -.284 BETA ( 1 ) = -4.041 MACH = .90200 RN/L = 3.1294 PO = 1556.9 P = 918.58

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3065 -.3128  
19.940 -.3019 -.2917  
39.905 -.2871 -.2723  
320.095 -.2644 -.2577  
340.060 -.3053 -.3031

ALPHA ( 2 ) = -.281 BETA ( 2 ) = -.028 MACH = .90200 RN/L = 3.1294 PO = 1556.9 P = 918.58

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2864 -.2788  
19.940 -.2861 -.2758  
39.905 -.2812 -.2826  
320.095 -.2557 -.2536  
340.060 -.2931 -.2802



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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E42)

ALPHA ( 2 ) = -.248 BETA ( 3 ) = 3.994 MACH = .90200 RN/L = 3.1294 PO = 1556.9 P = 918.58

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2789	-.2667
19.940	-.2851	-.2681
39.905	-.2848	-.2686
320.095	-.2644	-.2454
340.060	-.2794	-.2697

ALPHA ( 3 ) = 3.960 BETA ( 1 ) = .000 MACH = .89670 RN/L = 3.1185 PO = 1557.4 P = 924.11

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2745	-.2667
19.940	-.2712	-.2581
39.905	-.2652	-.2717
320.095	-.2384	-.2395
340.060	-.2853	-.2698

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E43) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 3.250 MACH = 1.100

ALPHA ( 1 ) = -4.016 BETA ( 1 ) = .003 MACH = 1.0981 RN/L = 3.2788 PO = 1555.3 P = 730.16

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3651 -.3663  
19.940 -.3573 -.3327  
39.905 -.3405 -.3289  
320.095 -.3258 -.3258  
340.060 -.3651 -.3551

ALPHA ( 2 ) = -.287 BETA ( 1 ) = -4.006 MACH = 1.0996 RN/L = 3.2662 PO = 1553.2 P = 727.81

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3558 -.3507  
19.940 -.3835 -.3652  
39.905 -.3658 -.3496  
320.095 -.3462 -.3496  
340.060 -.3487 -.3361

ALPHA ( 2 ) = -.291 BETA ( 2 ) = .000 MACH = 1.0996 RN/L = 3.2682 PO = 1553.2 P = 727.81

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3509 -.3534  
19.940 -.3427 -.3322  
39.905 -.3286 -.3192  
320.095 -.3128 -.3187  
340.060 -.3530 -.3480

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E43)

ALPHA ( 2 ) = - .310 BETA ( 3 ) = 4.006 MACH = 1.0996 RN/L = 3.2682 PO = 1553.2 P = 727.81

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3666	-.3550
19.940	-.3742	-.3719
39.905	-.3729	-.3745
320.095	-.3399	-.3429
340.060	-.3643	-.3566

ALPHA ( 3 ) = 4.016 BETA ( 1 ) = .003 MACH = 1.1070 RN/L = 3.2713 PO = 1554.6 P = 721.83

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3721	-.3739
19.940	-.3648	-.3450
39.905	-.3441	-.3391
320.095	-.3324	-.3355
340.060	-.3696	-.3626

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E44) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 3.250 MACH = 1.250

ALPHA ( 1 ) = -3.953 BETA ( 1 ) = .000 MACH = 1.2532 RN/L = 3.2918 PO = 1554.6 P = 597.59

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2799 -.2737  
19.940 -.2613 -.2420  
39.905 -.2485 -.2545  
320.095 -.2557 -.2572  
340.060 -.2829 -.2816

ALPHA ( 2 ) = -.287 BETA ( 1 ) = -4.003 MACH = 1.2509 RN/L = 3.2855 PO = 1552.7 P = 598.69

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2780 -.2713  
19.940 -.2991 -.2874  
39.905 -.2847 -.2717  
320.095 -.2666 -.2776  
340.060 -.2634 -.2559

ALPHA ( 2 ) = -.277 BETA ( 2 ) = .003 MACH = 1.2509 RN/L = 3.2855 PO = 1552.7 P = 598.69

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2818 -.2872  
19.940 -.2647 -.2529  
39.905 -.2451 -.2433  
320.095 -.2399 -.2424  
340.060 -.2803 -.2773

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E44)

ALPHA ( 2 ) = - .376 BETA ( 3 ) = 4.012 MACH = 1.2509 RN/L = 3.2855 PO = 1552.7 P = 598.69

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

FHI

.000	-.2704	-.2567
19.940	-.2938	-.2938
39.905	-.2851	-.2933
320.095	-.2438	-.2442
340.060	-.2724	-.2619

ALPHA ( 3 ) = 3.947 BETA ( 1 ) = -.003 MACH = 1.2488 RN/L = 3.2905 PO = 1553.9 P = 600.81

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2926	-.2943
19.940	-.2786	-.2612
39.905	-.2595	-.2606
320.095	-.2549	-.2529
340.060	-.2829	-.2758

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E45) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 3.250 MACH = 1.400

ALPHA ( 1 ) = -3.990 BETA ( 1 ) = -.003 MACH = 1.4024 RN/L = 3.2259 PO = 1554.6 P = 486.87

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2797 -.2733  
19.940 -.2753 -.2582  
39.905 -.2547 -.2507  
320.095 -.2657 -.2508  
340.060 -.2712 -.2556

ALPHA ( 2 ) = -.284 BETA ( 1 ) = -4.000 MACH = 1.4054 RN/L = 3.2190 PO = 1553.7 P = 484.53

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.1920 -.1952  
19.940 -.2278 -.2196  
39.905 -.2539 -.2242  
320.095 -.2250 -.2382  
340.060 -.2070 -.2036

ALPHA ( 2 ) = -.297 BETA ( 2 ) = .000 MACH = 1.4054 RN/L = 3.2190 PO = 1553.7 P = 484.53

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2434 -.2494  
19.940 -.2194 -.2062  
39.905 -.1919 -.2009  
320.095 -.2285 -.2239  
340.060 -.2444 -.2408

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) BDFLAP LR (RE4E45)

ALPHA ( 2 ) = -.294 BETA ( 3 ) = 4.009 MACH = 1.4054 RN/L = 3.2190 PO = 1553.7 P = 484.53

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2090 -.2039  
19.940 -.2336 -.2275  
39.905 -.2408 -.2545  
320.095 -.2307 -.2196  
340.060 -.2183 -.2176

ALPHA ( 3 ) = 3.980 BETA ( 1 ) = .000 MACH = 1.4028 RN/L = 3.2136 PO = 1553.2 P = 486.18

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2422 -.2443  
19.940 -.2229 -.2147  
39.905 -.1989 -.2016  
320.095 -.2175 -.2101  
340.060 -.2353 -.2330

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E46) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 2.500 MACH = .600

ALPHA ( 1 ) = -3.894 BETA ( 1 ) = -.022 MACH = .60060 RN/L = 2.5569 PO = 1550.8 P = 1221.5

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2446 -.2267  
19.940 -.2285 -.2075  
39.905 -.2374 -.2245  
320.095 -.2394 -.2448  
340.060 -.2422 -.2299

ALPHA ( 2 ) = -.350 BETA ( 1 ) = -4.041 MACH = .59890 RN/L = 2.5548 PO = 1557.9 P = 1222.4

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2417 -.2371  
19.940 -.2362 -.2137  
39.905 -.2156 -.2091  
320.095 -.2394 -.2472  
340.060 -.2379 -.2379

ALPHA ( 2 ) = -.320 BETA ( 2 ) = -.025 MACH = .59890 RN/L = 2.5548 PO = 1557.9 P = 1222.4

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2508 -.2439  
19.940 -.2316 -.2038  
39.905 -.2302 -.2242  
320.095 -.2421 -.2509  
340.060 -.2490 -.2494



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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR (RE4E46)

ALPHA ( 2 ) = -.337 BETA ( 3 ) = 3.994 MACH = .59890 RN/L = 2.5348 PO = 1557.9 P = 1222.4

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2514	-.2314
19.940	-.2264	-.1986
39.905	-.2325	-.2436
320.095	-.2301	-.2546
340.060	-.2712	-.2569

ALPHA ( 3 ) = 4.076 BETA ( 1 ) = -.028 MACH = .60170 RN/L = 2.5615 PO = 1555.3 P = 1217.7

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2336	-.2143
19.940	-.2124	-.1794
39.905	-.2219	-.2092
320.095	-.2273	-.2407
340.060	-.2227	-.2259

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLA<sup>3</sup> LR

(RE4E47) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-0B = .000  
RN/L = 3.250 MACH = .900

ALPHA ( 1 ) = -.033 BETA ( 1 ) = .000 MACH = .90410 RN/L = 3.1247 PO = 1556.7 P = 916.32

SECTION ( 1 ) BDFLA<sup>3</sup> LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3303 -.3052  
19.940 -.3206 -.3012  
39.905 -.3039 -.2980  
320.095 -.3112 -.3133  
340.060 -.3122 -.2977

ALPHA ( 2 ) = -.343 BETA ( 1 ) = -4.044 MACH = .90470 RN/L = 3.1302 PO = 1559.3 P = 917.26

SECTION ( 1 ) BDFLA<sup>3</sup> LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3135 -.3284  
19.940 -.3227 -.3052  
39.905 -.3043 -.3022  
320.095 -.3331 -.3442  
340.060 -.3330 -.3489

ALPHA ( 2 ) = -.340 BETA ( 2 ) = -.028 MACH = .90470 RN/L = 3.1302 PO = 1559.3 P = 917.26

SECTION ( 1 ) BDFLA<sup>3</sup> LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3263 -.3022  
19.940 -.3258 -.3009  
39.905 -.3103 -.3041  
320.095 -.3071 -.3191  
340.060 -.3186 -.3052

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP LR

(RE4E47)

ALPHA ( 2 ) = -.340 BETA ( 3 ) = 3.991 MACH = .90470 RN/L = 3.1302 PO = 1559.3 P = 917.26

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2994	-.2874
19.940	-.3081	-.2967
39.905	-.3407	-.3402
320.095	-.3003	-.2730
340.050	-.2942	-.2818

ALPHA ( 3 ) = 3.927 BETA ( 1 ) = -.028 MACH = .90080 RN/L = 3.1258 PO = 1559.5 P = 921.25

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3171	-.2984
19.940	-.3114	-.2922
39.905	-.2954	-.2865
320.095	-.2828	-.2980
340.060	-.3062	-.2952

C.8

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E48) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 3.250 MACH = 1.100

ALPHA ( 1 ) = -3.934 BETA ( 1 ) = .003 MACH = 1.0985 RN/L = 3.2696 PO = 1558.8 P = 731.42

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3544 -.3528  
19.940 -.3430 -.3182  
39.905 -.3238 -.3213  
320.095 -.3363 -.3605  
340.060 -.3519 -.3633

ALPHA ( 2 ) = -.413 BETA ( 1 ) = -4.006 MACH = 1.1014 RN/L = 3.2674 PO = 1557.4 P = 728.17

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3353 -.3335  
19.940 -.3627 -.3486  
39.905 -.3472 -.3399  
320.095 -.3323 -.3476  
340.060 -.3257 -.3176

ALPHA ( 2 ) = -.443 BETA ( 2 ) = .000 MACH = 1.1014 RN/L = 3.2674 PO = 1557.4 P = 728.17

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3435 -.3410  
19.940 -.3390 -.3138  
39.905 -.3254 -.3195  
320.095 -.3252 -.3525  
340.060 -.3399 -.3556

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR (REWE48)

ALPHA ( 2 ) = -.420 BETA ( 3 ) = 4.016 MACH = 1.1014 RN/L = 3.2674 PO = 1557.4 P = 728.17

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3453	-.3351
19.940	-.3515	-.3538
39.905	-.3579	-.3797
320.095	-.3338	-.3543
340.060	-.3442	-.3421

ALPHA ( 3 ) = 3.884 BETA ( 1 ) = .000 MACH = 1.1080 RN/L = 3.2705 PO = 1558.1 P = 722.58

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3546	-.3530
19.940	-.3530	-.3233
39.905	-.3417	-.3410
320.095	-.3418	-.3627
340.060	-.3530	-.3564

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E49) ( 2. JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000  
RN/L = 4.250 ALPHA = .000

BETA ( 1 ) = -.063 MACH ( 1 ) = .908 ALPHA = .87925-01 RN/L = 4.3824 PO = 2112.8 P = 1025.7

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2866 -.2736  
19.940 -.2801 -.2747  
39.905 -.2861 -.2766  
320.095 -.2547 -.2470  
340.060 -.2886 -.2781

BETA ( 1 ) = -.063 MACH ( 2 ) = .947 ALPHA = .87925-01 RN/L = 4.3824 PO = 2112.8 P = 1025.7

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3364 -.3317  
19.940 -.3379 -.3351  
39.905 -.3311 -.3289  
320.095 -.3075 -.2954  
340.060 -.3436 -.3315

BETA ( 1 ) = -.063 MACH ( 3 ) = .998 ALPHA = .87925-01 RN/L = 4.3824 PO = 2112.8 P = 1025.7

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3732 -.3701  
19.940 -.3686 -.3603  
39.905 -.3525 -.3535  
320.095 -.3386 -.3401  
340.060 -.3780 -.3724

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) BDFLAP LR (REWE49)

BETA ( 1 ) = -.063 MACH ( 4 ) = 1.050 ALPHA = .87925-01 RN/L = 4.3824 PO = 2112.8 P = 1025.7

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3825	-.3856
19.940	-.3783	-.3666
39.905	-.3668	-.3595
320.095	-.3436	-.3497
340.060	-.3882	-.3818

BETA ( 1 ) = -.063 MACH ( 5 ) = 1.102 ALPHA = .87925-01 RN/L = 4.3824 PO = 2112.8 P = 1025.7

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3392	-.3483
19.940	-.3305	-.3142
39.905	-.3122	-.3104
320.095	-.2975	-.3138
340.060	-.3437	-.3463

BETA ( 1 ) = -.063 MACH ( 6 ) = 1.146 ALPHA = .87925-01 RN/L = 4.3824 PO = 2112.8 P = 1025.7

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3140	-.3112
19.940	-.3105	-.2878
39.905	-.3059	-.2969
320.095	-.2842	-.2841
340.060	-.3061	-.2968

BETA ( 1 ) = -.063 MACH ( 7 ) = 1.196 ALPHA = .87925-01 RN/L = 4.3824 PO = 2112.8 P = 1025.7

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3044	-.2986
19.940	-.2952	-.2860
39.905	-.2901	-.2929
320.095	-.2773	-.2804
340.060	-.2891	-.2890

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E49)

BETA ( 1 ) = -.063 MACH ( 8 ) = 1.253 ALPHA = .87925-01 RN/L = 4.3824 PO = 2112.8 P = 1025.7

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2777	-.2756
19.940	-.2652	-.2522
39.905	-.2544	-.2589
320.095	-.2511	-.2517
340.060	-.2638	-.2671



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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E50) ( 21 JAN 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
 LREF = 1290.3000 IN. YMRP = .0000 IN.  
 BREF = 1290.3000 IN. ZMRP = .0000 IN.  
 SCALE = .0200

## PARAMETRIC DATA

ELV-IB = 8.000 ELV-OB = 4.000  
 RN/L = 4.250 ALPHA = .000

BETA ( 1 ) = -.063 MACH ( 1 ) = .893 ALPHA = -.66125-02 RN/L = 4.3693 PO = 2107.0 P = 1025.6

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3144 -.3019  
 19.940 -.3206 -.2913  
 39.905 -.2983 -.2977  
 320.095 -.2980 -.3224  
 340.060 -.3165 -.3185

BETA ( 1 ) = -.063 MACH ( 2 ) = .948 ALPHA = -.66125-02 RN/L = 4.3693 PO = 2107.0 P = 1025.6

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3999 -.3932  
 19.940 -.3993 -.3787  
 39.905 -.3840 -.3666  
 320.095 -.3847 -.3976  
 340.060 -.3893 -.4002

BETA ( 1 ) = -.063 MACH ( 3 ) = .995 ALPHA = -.66125-02 RN/L = 4.3693 PO = 2107.0 P = 1025.6

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4580 -.4564  
 19.940 -.4535 -.4557  
 39.905 -.4517 -.4559  
 320.095 -.4507 -.4912  
 340.060 -.4627 -.4823

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR (RE4E50)

BETA ( 1 ) = -.063 MACH ( 4 ) = 1.052 ALPHA = -.66125-02 RN/L = 4.3693 PO = 2107.0 P = 1025.6

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4169	-.4120
19.940	-.4004	-.3857
39.905	-.3954	-.3992
320.095	-.3950	-.4335
340.060	-.4153	-.4373

BETA ( 1 ) = -.063 MACH ( 5 ) = 1.098 ALPHA = -.66125-02 RN/L = 4.3693 PO = 2107.0 P = 1025.6

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3433	-.3451
19.940	-.3370	-.3133
39.905	-.3279	-.3326
320.095	-.3271	-.3527
340.060	-.3418	-.3640

BETA ( 1 ) = -.063 MACH ( 6 ) = 1.149 ALPHA = -.66125-02 RN/L = 4.3693 PO = 2107.0 P = 1025.6

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2992	-.2976
19.940	-.3033	-.2940
39.905	-.3108	-.3296
320.095	-.2976	-.3192
340.060	-.2994	-.3063

BETA ( 1 ) = -.063 MACH ( 7 ) = 1.197 ALPHA = -.66125-02 RN/L = 4.3693 PO = 2107.0 P = 1025.6

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2566	-.2550
19.940	-.2643	-.2599
39.905	-.2718	-.2929
320.095	-.2584	-.2734
340.060	-.2537	-.2595

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP LR

(RE4E50)

BETA ( 1 ) = -.063 MACH ( 8 ) = 1.250 ALPHA = -.66125-02 RN/L = 4.3693 PO = 2107.0 P = 1025.6

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2272	-.2215
19.940	-.2257	-.2170
39.905	-.2346	-.2472
320.095	-.2255	-.2361
340.060	-.2224	-.2235

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E51) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-OB = 4.000  
RN/L = 4.250 MACH = .980

ALPHA ( 1 ) = -3.950 BETA ( 1 ) = -.063 MACH = .98240 RN/L = 4.3057 PO = 2116.2 P = 1141.0

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3644 -.3646  
19.940 -.3659 -.3506  
39.905 -.3573 -.3488  
320.095 -.3349 -.3272  
340.060 -.3675 -.3659

ALPHA ( 2 ) = -.416 BETA ( 1 ) = -4.075 MACH = .98283 RN/L = 4.3109 PO = 2116.4 P = 1140.5

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3853 -.3850  
19.940 -.3826 -.3735  
39.905 -.3773 -.3749  
320.095 -.3460 -.3379  
340.060 -.3728 -.3633

ALPHA ( 2 ) = -.386 BETA ( 2 ) = -.063 MACH = .98283 RN/L = 4.3109 PO = 2116.4 P = 1140.5

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3619 -.3584  
19.940 -.3665 -.3498  
39.905 -.3607 -.3524  
320.095 -.3372 -.3392  
340.060 -.3642 -.3598

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

EDFLAP LR

(RE4E51)

ALPHA ( 2 ) = - .370 BETA ( 3 ) = 3.950 MACH = .98233 RN/L = 4.3109 PO = 2116.4 P = 1140.5

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3725	-.3540
19.940	-.3755	-.3573
39.905	-.3653	-.3536
320.095	-.3383	-.3279
340.060	-.3664	-.3587

ALPHA ( 3 ) = 4.076 BETA ( 1 ) = -.063 MACH = .98530 RN/L = 4.3166 PO = 2116.2 P = 1137.1

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3752	-.3710
19.940	-.3688	-.3554
39.905	-.3649	-.3507
320.095	-.3314	-.3286
340.060	-.3737	-.3686

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP LR

(RE4E52) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = 8.000 ELV-08 = 4.000  
RN/L = 4.250 MACH = .980

ALPHA ( 1 ) = -3.930 BETA ( 1 ) = -.063 MACH = .97970 RN/L = 4.2999 PO = 2109.1 P = 1140.7

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4644 -.4575  
19.940 -.4542 -.4336  
39.905 -.4419 -.4366  
320.095 -.4541 -.4827  
340.060 -.4645 -.4817

ALPHA ( 2 ) = -.519 BETA ( 1 ) = -4.078 MACH = .98183 RN/L = 4.3033 PO = 2108.9 P = 1137.8

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4215 -.4506  
19.940 -.4344 -.4171  
39.905 -.4237 -.4270  
320.095 -.4511 -.4829  
340.060 -.4294 -.4620

ALPHA ( 2 ) = -.476 BETA ( 2 ) = -.063 MACH = .98183 RN/L = 4.3033 PO = 2108.9 P = 1137.8

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4507 -.4438  
19.940 -.4529 -.4361  
39.905 -.4509 -.4516  
320.095 -.4478 -.4860  
340.060 -.4513 -.4625

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP LR

(RE4E52)

ALPHA ( 2 ) = -.499 BETA ( 3 ) = 3.953 MACH = .98193 RN/L = 4.3033 PO = 2108.9 P = 1137.8

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4493	-.4458
19.940	-.4574	-.4497
39.905	-.4512	-.4669
320.095	-.4357	-.4587
340.060	-.4491	-.4510

ALPHA ( 3 ) = 3.993 BETA ( 1 ) = -.063 MACH = .98140 RN/L = 4.3065 PO = 2109.8 P = 1138.9

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4627	-.4505
19.940	-.4596	-.4404
39.905	-.4476	-.4474
320.095	-.4387	-.4830
340.060	-.4549	-.4741

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E53) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-IB = 8.000 ELV-OB = 4.000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.944 BETA ( 1 ) = .000 MACH = .60320 RN/L = 3.4712 PO = 2123.2 P = 1660.4

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2319 -.2253  
19.940 -.2179 -.1979  
39.905 -.2071 -.2022  
320.095 -.1962 -.2065  
340.060 -.2375 -.2323

ALPHA ( 2 ) = -.320 BETA ( 1 ) = -4.050 MACH = .60547 RN/L = 3.4696 PO = 2122.3 P = 1656.7

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2240 -.2114  
19.940 -.2173 -.2000  
39.905 -.2084 -.2067  
320.095 -.2067 -.2094  
340.060 -.2107 -.2080

ALPHA ( 2 ) = -.297 BETA ( 2 ) = .000 MACH = .60547 RN/L = 3.4696 PO = 2122.3 P = 1656.7

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2270 -.2127  
19.940 -.2121 -.1988  
39.905 -.2071 -.2041  
320.095 -.1970 -.2047  
340.060 -.2224 -.2151

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E53)

ALPHA ( 2 ) = -.314 BETA ( 3 ) = 3.978 MACH = .60547 RN/L = 3.4696 PO = 2122.3 P = 1656.7

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2139	-.1904
19.940	-.1987	-.1762
39.905	-.2019	-.2055
320.095	-.1909	-.1998
340.060	-.2050	-.2013

ALPHA ( 3 ) = 4.053 BETA ( 1 ) = .000 MACH = .60520 RN/L = 3.4659 PO = 2121.8 P = 1656.8

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2085	-.2038
19.940	-.2018	-.1729
39.905	-.1968	-.1979
320.095	-.1863	-.1903
340.060	-.2115	-.2058

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E54) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = 4.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.940 BETA ( 1 ) = -.044 MACH = .89610 RN/L = 4.1894 PO = 2105.5 P = 1250.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2755 -.2636  
19.940 -.2794 -.2656  
39.905 -.2787 -.2683  
320.095 -.2518 -.2416  
340.060 -.2836 -.2643

ALPHA ( 2 ) = -.284 BETA ( 1 ) = -4.059 MACH = .89087 RN/L = 4.1758 PO = 2102.0 P = 1255.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2946 -.2954  
19.940 -.2909 -.2806  
39.905 -.2812 -.2739  
320.095 -.2592 -.2490  
340.060 -.3004 -.2949

ALPHA ( 2 ) = -.320 BETA ( 2 ) = -.041 MACH = .89087 RN/L = 4.1758 PO = 2102.0 P = 1255.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2728 -.2559  
19.940 -.2755 -.2573  
39.905 -.2762 -.2788  
320.095 -.2482 -.2430  
340.060 -.2593 -.2549

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E54)

ALPHA ( 2 ) = -.314 BETA ( 3 ) = 3.975 MACH = .89087 RN/L = 4.1758 PO = 2102.0 P = 1255.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2792	-.2680
19.940	-.2724	-.2577
39.905	-.2759	-.2619
320.095	-.2489	-.2401
340.060	-.2782	-.2724

ALPHA ( 3 ) = 3.980 BETA ( 1 ) = -.038 MACH = .89310 RN/L = 4.1769 PO = 2101.3 P = 1251.7

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2565	-.2381
19.940	-.2585	-.2321
39.905	-.2508	-.2500
320.095	-.2264	-.2242
340.060	-.2595	-.2500

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E55) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = 8.000 ELV-08 = 4.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.772 BETA ( 1 ) = -.066 MACH = 1.1026 RN/L = 4.3661 PO = 2116.2 P = 987.87

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3404 -.3432  
19.940 -.3320 -.3130  
39.905 -.3131 -.3066  
320.095 -.3005 -.3074  
340.060 -.3369 -.3400

ALPHA ( 2 ) = -.380 BETA ( 1 ) = -4.075 MACH = 1.1029 RN/L = 4.3716 PO = 2116.7 P = 987.69

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3429 -.3349  
19.940 -.3638 -.3480  
39.905 -.3488 -.3488  
320.095 -.3292 -.3428  
340.060 -.3269 -.3281

ALPHA ( 2 ) = -.357 BETA ( 2 ) = -.059 MACH = 1.1029 RN/L = 4.3716 PO = 2116.7 P = 987.69

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3270 -.3307  
19.940 -.3140 -.3085  
39.905 -.2980 -.3005  
320.095 -.2851 -.3023  
340.060 -.3289 -.3318

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E55)

ALPHA ( 2 ) = -.367 BETA ( 3 ) = 3.956 MACH = 1.1029 RN/L = 4.3716 PO = 2116.7 P = 987.69

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3426	-.3397
19.940	-.3553	-.3602
39.905	-.3533	-.3696
320.095	-.3094	-.3270
340.060	-.3411	-.3456

ALPHA ( 3 ) = 4.092 BETA ( 1 ) = -.059 MACH = 1.0997 RN/L = 4.3718 PO = 2114.7 P = 990.85

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3727	-.3797
19.940	-.3593	-.3449
39.905	-.3382	-.3444
320.095	-.3200	-.3402
340.060	-.3699	-.3764

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E56) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.950 BETA ( 1 ) = -.063 MACH = 1.2534 RN/L = 4.3988 PO = 2111.9 P = 811.60

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2741 -.2734  
19.940 -.2510 -.2405  
39.905 -.2370 -.2463  
320.095 -.2551 -.2633  
340.060 -.2758 -.2823

ALPHA ( 2 ) = -.324 BETA ( 1 ) = -4.075 MACH = 1.2533 RN/L = 4.3973 PO = 2112.4 P = 811.89

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2569 -.2543  
19.940 -.2729 -.2631  
39.905 -.2660 -.2644  
320.095 -.2538 -.2701  
340.060 -.2399 -.2438

ALPHA ( 2 ) = -.314 BETA ( 2 ) = -.063 MACH = 1.2533 RN/L = 4.3973 PO = 2112.4 P = 811.89

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2802 -.2828  
19.940 -.2628 -.2545  
39.905 -.2431 -.2455  
320.095 -.2449 -.2498  
340.060 -.2740 -.2756

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E56)

ALPHA ( 2 ) = -.343 BETA ( 3 ) = 3.953 MACH = 1.2533 RN/L = 4.3973 PO = 2112.4 P = 811.89

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2535	-.2483
19.940	-.2804	-.2494
39.905	-.2802	-.2965
320.095	-.2396	-.2493
340.060	-.2551	-.2590

ALPHA ( 3 ) = 3.967 BETA ( 1 ) = -.066 MACH = 1.2519 RN/L = 4.3949 PO = 2112.6 P = 813.49

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2746	-.2784
19.940	-.2582	-.2480
39.905	-.2509	-.2632
320.095	-.2497	-.2535
340.060	-.2644	-.2726

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BD\*FLAP LR

(RE4E57) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = 4.000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.953 BETA ( 1 ) = -.063 MACH = 1.4049 RN/L = 4.3087 PO = 2128.2 P = 664.20

SECTION ( 1 ) BD\*FLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2673 -.2611  
19.940 -.2579 -.2472  
39.905 -.2505 -.2524  
320.095 -.2596 -.2522  
340.060 -.2534 -.2507

ALPHA ( 2 ) = -.317 BETA ( 1 ) = -4.075 MACH = 1.4057 RN/L = 4.3127 PO = 2132.4 P = 664.76

SECTION ( 1 ) BD\*FLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1829 -.1876  
19.940 -.2093 -.2082  
39.905 -.2302 -.2186  
320.095 -.2199 -.2453  
340.060 -.1933 -.1986

ALPHA ( 2 ) = -.320 BETA ( 2 ) = -.059 MACH = 1.4057 RN/L = 4.3127 PO = 2132.4 P = 664.76

SECTION ( 1 ) BD\*FLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2414 -.2408  
19.940 -.2185 -.2036  
39.905 -.1952 -.2030  
320.095 -.2218 -.2258  
340.060 -.2369 -.2408



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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E57)

ALPHA ( 2 ) = -.522 BETA ( 3 ) = 3.956 MACH = 1.4057 RN/L = 4.3127 PO = 2132.4 P = 664.76

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1981	-.1954
19.940	-.2225	-.2238
39.905	-.2322	-.2547
320.095	-.2212	-.2087
340.060	-.2014	-.2093

ALPHA ( 3 ) = 4.208 BETA ( 1 ) = -.069 MACH = 1.4030 RN/L = 4.2923 PO = 2121.8 P = 663.96

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2259	-.2323
19.940	-.2081	-.1939
39.905	-.1806	-.1959
320.095	-.1980	-.2084
340.060	-.2165	-.2228

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP LR

(RE4E58) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.953 BETA ( 1 ) = .000 MACH = .59380 RN/L = 3.3921 PO = 2104.8 P = 1658.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2526 -.2619  
19.940 -.2381 -.2126  
39.905 -.2315 -.2305  
320.095 -.2439 -.2629  
340.060 -.2674 -.2733

ALPHA ( 2 ) = -.343 BETA ( 1 ) = -4.050 MACH = .59587 RN/L = 3.4000 PO = 2105.0 P = 1655.7

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2432 -.2404  
19.940 -.2397 -.2250  
39.905 -.2181 -.2192  
320.095 -.2503 -.2640  
340.060 -.2353 -.2401

ALPHA ( 2 ) = -.380 BETA ( 2 ) = .000 MACH = .59587 RN/L = 3.4000 PO = 2105.0 P = 1655.7

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2589 -.2401  
19.940 -.2368 -.2030  
39.905 -.2248 -.2307  
320.095 -.2481 -.2573  
340.060 -.2609 -.2596

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ARC11-0231A80 OTS(SRB=N ORB=N ) BD=LR LR

(RE4E58)

ALPHA ( 2 ) = -.386 BETA ( 3 ) = 3.978 MACH = .59587 RN/L = 3.4000 PO = 2105.0 P = 1655.7

SECTION ( 1 ) BD FLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2471	-.2167
19.940	-.2312	-.1991
39.905	-.2333	-.2627
320.095	-.2315	-.2737
340.060	-.2471	-.2658

ALPHA ( 3 ) = 3.993 BETA ( 1 ) = -.003 MACH = .59700 RN/L = 3.4043 PO = 2104.8 P = 1654.1

SECTION ( 1 ) BD FLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2502	-.2440
19.940	-.2300	-.1968
39.905	-.2211	-.2235
320.095	-.2386	-.2699
340.060	-.2604	-.2666

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ARC11-0231A80 OTS(SRB=N ORB=N ) BD FLAP LR

(RE4E59) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = 8.000 ELV-08 = 4.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.983 BETA ( 1 ) = -.038 MACH = .89250 RN/L = 4.1747 PO = 2100.6 P = 1252.1

SECTION ( 1 ) BD FLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3229 -.3027  
19.940 -.3132 -.2905  
39.905 -.3012 -.2874  
320.095 -.3027 -.3039  
340.060 -.3214 -.3059

ALPHA ( 2 ) = -.370 BETA ( 1 ) = -4.059 MACH = .89213 RN/L = 4.1756 PO = 2100.4 P = 1252.5

SECTION ( 1 ) BD FLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3079 -.3321  
19.940 -.3145 -.3013  
39.905 -.3098 -.3007  
320.095 -.3346 -.3429  
340.060 -.3319 -.3472

ALPHA ( 2 ) = -.403 BETA ( 2 ) = -.044 MACH = .89213 RN/L = 4.1756 PO = 2100.4 P = 1252.5

SECTION ( 1 ) BD FLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3176 -.2972  
19.940 -.3176 -.2963  
39.905 -.2997 -.2850  
320.095 -.3001 -.3050  
340.060 -.3033 -.2899

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP LR

(RE4E59)

ALPHA ( 2 ) = -.409 BETA ( 3 ) = 3.972 MACH = .89213 RN/L = 4.1756 PO = 2100.4 P = 1252.5

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LC 1.0230 1.0500

PHI

.000	-.3106	-.2947
19.940	-.3099	-.3020
39.905	-.3246	-.3374
320.095	-.2843	-.2833
340.060	-.3157	-.3034

ALPHA ( 3 ) = 4.076 BETA ( 1 ) = -.041 MACH = .89250 RN/L = 4.1726 PO = 2099.9 P = 1251.7

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3046	-.2908
19.940	-.3067	-.2765
39.905	-.2878	-.2812
320.095	-.2796	-.2943
340.060	-.2924	-.2943

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E60) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

LLV-18 = 8.000 ELV-08 = 4.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.937 BETA ( 1 ) = -.059 MACH = 1.1000 RN/L = 4.3718 PO = 2109.8 P = 988.18

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3393 -.3377  
19.940 -.3275 -.2985  
39.905 -.3156 -.3173  
320.095 -.3247 -.3563  
340.060 -.3382 -.3603

ALPHA ( 2 ) = -.528 BETA ( 1 ) = -4.075 MACH = 1.0987 RN/L = 4.3759 PO = 2110.0 P = 989.61

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3391 -.3337  
19.940 -.3574 -.3499  
39.905 -.3527 -.3611  
320.095 -.3343 -.3629  
340.060 -.3256 -.3248

ALPHA ( 2 ) = -.492 BETA ( 2 ) = -.063 MACH = 1.0987 RN/L = 4.3759 PO = 2110.0 P = 989.81

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3212 -.3229  
19.940 -.3115 -.2993  
39.905 -.3081 -.3135  
320.095 -.3045 -.3389  
340.060 -.3253 -.3421

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ARC11-0231A80 OTS(SRB=N ORB=N ) BCFLAP LR (RE4E60)

ALPHA ( 2 ) = -.532 BETA ( 3 ) = 3.956 MACH = 1.0987 RN/L = 4.3759 PO = 2110.0 P = 989.81

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3404	-.3335
19.940	-.3487	-.3598
39.905	-.3655	-.4023
320.095	-.3265	-.3596
340.060	-.3392	-.3446

ALPHA ( 3 ) = 4.013 BETA ( 1 ) = -.063 MACH = 1.1000 RN/L = 4.3823 PO = 2110.5 P = 988.47

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3619	-.3671
19.940	-.3532	-.3292
39.905	-.3415	-.3555
320.095	-.3423	-.3742
340.060	-.3592	-.3810

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E61) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-OB = 4.000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.960 BETA ( 1 ) = -.066 MACH = 1.2528 RN/L = 4.3924 PO = 2109.8 P = 811.49

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2460 -.2358  
19.940 -.2322 -.2114  
39.905 -.2270 -.2309  
320.095 -.2402 -.2560  
340.060 -.2416 -.2545

ALPHA ( 2 ) = -.505 BETA ( 1 ) = -4.075 MACH = 1.2524 RN/L = 4.3922 PO = 2110.3 P = 812.12

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2173 -.2201  
19.940 -.2273 -.2266  
39.905 -.2246 -.2352  
320.095 -.2147 -.2314  
340.060 -.2009 -.2050

ALPHA ( 2 ) = -.459 BETA ( 2 ) = -.059 MACH = 1.2524 RN/L = 4.3922 PO = 2110.3 P = 812.12

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2290 -.2227  
19.940 -.2234 -.2120  
39.905 -.2278 -.2451  
320.095 -.2245 -.2381  
340.060 -.2227 -.2283



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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP LR

(RE4E61)

ALPHA ( 2 ) = - .462 BETA ( 3 ) = 3.953 MACH = 1.2524 RN/L = 4.3922 PO = 2110.3 P = 812.12

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2175	-.2053
19.940	-.2348	-.2447
39.905	-.2471	-.2775
320.095	-.2104	-.2296
340.060	-.2179	-.2124

ALPHA ( 3 ) = 4.006 BETA ( 1 ) = -.063 MACH = 1.2481 RN/L = 4.3945 PO = 2110.5 P = 816.88

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2327	-.2300
19.940	-.2318	-.2254
39.905	-.2389	-.2545
320.095	-.2291	-.2472
340.060	-.2308	-.2355

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E62) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.937 BETA ( 1 ) = -.069 MACH = 1.3993 RN/L = 4.2798 PO = 2114.0 P = 664.93

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1950 -.1883  
19.940 -.1925 -.1794  
39.905 -.1973 -.2045  
320.095 -.2000 -.2072  
340.060 -.1974 -.1984

ALPHA ( 2 ) = -.486 BETA ( 1 ) = -4.078 MACH = 1.3989 RN/L = 4.2779 PO = 2113.8 P = 665.32

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1593 -.1612  
19.940 -.1755 -.1765  
39.905 -.1771 -.1942  
320.095 -.1627 -.1758  
340.060 -.1465 -.1422

ALPHA ( 2 ) = -.486 BETA ( 2 ) = -.063 MACH = 1.3989 RN/L = 4.2779 PO = 2113.8 P = 665.32

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1785 -.1735  
19.940 -.1661 -.1491  
39.905 -.1718 -.1802  
320.095 -.1829 -.1978  
340.060 -.1832 -.1855

DATE 23 JUL 75

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR (RE4E62)

ALPHA ( 2 ) = -.499 BETA ( 3 ) = 3.953 MACH = 1.3989 RN/L = 4.2779 PO = 2113.8 P = 665.32

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1530	-.1458
19.940	-.1663	-.1667
39.905	-.1829	-.2108
320.095	-.1555	-.1742
340.060	-.1566	-.1586

ALPHA ( 3 ) = 4.020 BETA ( 1 ) = -.066 MACH = 1.3960 RN/L = 4.2780 PO = 2114.0 P = 668.11

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1722	-.1727
19.940	-.1549	-.1347
39.905	-.1478	-.1577
320.095	-.1656	-.1864
340.060	-.1700	-.1856

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N+ OFB=N )

BDFLAP LR

(RE4E63) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = 4.000  
RN/L = 4.250 MACH = .980

ALPHA ( 1 ) = -3.868 BETA ( 1 ) = -.063 MACH = .98020 RN/L = 4.3081 PO = 2109.8 P = 1140.4

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4522 -.4450  
19.940 -.4435 -.4197  
39.905 -.4300 -.4267  
320.095 -.4411 -.4745  
340.060 -.4532 -.4738

ALPHA ( 2 ) = -.486 BETA ( 1 ) = -4.075 MACH = .97937 RN/L = 4.3059 PO = 2108.4 P = 1140.7

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4210 -.4435  
19.940 -.4304 -.4267  
39.905 -.4198 -.4227  
320.095 -.4495 -.4858  
340.060 -.4361 -.4634

ALPHA ( 2 ) = -.456 BETA ( 2 ) = -.063 MACH = .97937 RN/L = 4.3059 PO = 2108.4 P = 1140.7

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4414 -.4339  
19.940 -.4390 -.4199  
39.905 -.4358 -.4261  
320.095 -.4354 -.4685  
340.060 -.4414 -.4576

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-02' '0 OTS(SRB=N+ ORB=N ) BDFLAP LR (RE4E63)

ALPHA ( 2) = -.439 BETA ( 3) = 3.953 = .97937 RN/L = 4.3059 PO = 2108.4 P = 1140.7

SECTION ( 1)BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4426	-.4361
19.940	-.44562	-.4479
39.905	-.4486	-.4652
320.095	-.4325	-.4472
340.060	-.4447	-.4435

ALPHA ( 3) = 4.013 BETA ( 1) = -.069 MACH = .98150 RN/L = 4.3090 PO = 2108.4 P = 1137.9

SECTION ( 1)BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4482	-.4376
19.940	-.4493	-.4251
39.905	-.4441	-.4416
320.035	-.4409	-.4789
340.060	-.4467	-.4617

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E64) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-03 = -4.000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.973 BETA ( 1 ) = -.047 MACH = .58500 RN/L = 3.4024 PO = 2096.3 P = 1662.8

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2157 -.2065  
19.940 -.2026 -.1774  
39.905 -.2015 -.1944  
320.095 -.1993 -.1961  
340.060 -.2172 -.2129

ALPHA ( 2 ) = -.277 BETA ( 1 ) = -4.066 MACH = .58960 RN/L = 3.4202 PO = 2098.0 P = 1658.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2218 -.2099  
19.940 -.2176 -.2039  
39.905 -.2137 -.2106  
320.095 -.2057 -.2068  
340.060 -.2099 -.2032

ALPHA ( 2 ) = -.291 BETA ( 2 ) = -.047 MACH = .58960 RN/L = 3.4202 PO = 2098.0 P = 1658.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2214 -.2140  
19.940 -.2190 -.1952  
39.905 -.2113 -.2047  
320.095 -.2005 -.2016  
340.060 -.2210 -.2137

DATE 23 JUL 76

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

EDFLAP LR

(RE4E64)

ALPHA ( 2 ) = -.307 BETA ( 3 ) = 3.972 MACH = .58960 RN/L = 3.4202 PO = 2098.0 P = 1658.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2144	-.1915
19.940	-.1979	-.1799
39.905	-.2063	-.2049
320.095	-.1914	-.1988
340.060	-.2183	-.2130

ALPHA ( 3 ) = 3.957 BETA ( 1 ) = -.044 MACH = .59060 RN/L = 3.4224 PO = 2098.5 P = 1657.3

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2108	-.2024
19.940	-.2077	-.1794
39.905	-.2017	-.1951
320.095	-.1888	-.1940
340.060	-.2133	-.2031

DATE 23 JUL 76

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ARC11-0231A0 OTS(SRB=OFF ORB=OFF)

EDFLAP LR

(RE4E65) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-OB = -4.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.977 BETA ( 1 ) = -.044 MACH = .89350 RN/L = 4.2056 PO = 2100.6 P = 1250.8

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2829 -.2632  
19.940 -.2796 -.2614  
39.905 -.2792 -.2701  
320.095 -.2496 -.2450  
340.060 -.2813 -.2663

ALPHA ( 2 ) = -.304 BETA ( 1 ) = -4.063 MACH = .89107 RN/L = 4.1787 PO = 2099.2 P = 1253.2

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2921 -.2939  
19.940 -.2909 -.2766  
39.905 -.2828 -.2710  
320.095 -.2593 -.2489  
340.060 -.2957 -.2894

ALPHA ( 2 ) = -.314 BETA ( 2 ) = -.044 MACH = .89107 RN/L = 4.1787 PO = 2099.2 P = 1253.2

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2654 -.2490  
19.940 -.2788 -.2602  
39.905 -.2777 -.2745  
320.095 -.2457 -.2418  
340.060 -.2623 -.2525

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E65)

ALPHA ( 2 ) = - .317 BETA ( 3 ) = 3.972 MACH = .89107 RN/L = 4.1787 PO = 2099.2 P = 1253.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2740	-.2655
19.940	-.2753	-.2578
39.905	-.2783	-.2588
320.095	-.2511	-.2402
340.060	-.2785	-.2699

ALPHA ( 3 ) = 3.930 BETA ( 1 ) = -.041 MACH = .89120 RN/L = 4.1708 PO = 2098.5 P = 1252.6

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2627	-.2481
19.940	-.2606	-.2450
39.905	-.2574	-.2479
320.095	-.2310	-.2253
340.060	-.2631	-.2537

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E66) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = -4.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.963 BETA ( 1 ) = -.063 MACH = 1.0996 RN/L = 4.4015 PO = 2123.2 P = 994.87

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3495 -.3506  
19.940 -.3425 -.3228  
39.905 -.3275 -.3177  
320.095 -.3107 -.3156  
340.060 -.3468 -.3488

ALPHA ( 2 ) = -.337 BETA ( 1 ) = -4.072 MACH = 1.0995 RN/L = 4.4038 PO = 2123.7 P = 995.30

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3555 -.3465  
19.940 -.3728 -.3579  
39.905 -.3672 -.3607  
320.095 -.3441 -.3530  
340.060 -.3444 -.3313

ALPHA ( 2 ) = -.334 BETA ( 2 ) = -.059 MACH = 1.0995 RN/L = 4.4038 PO = 2123.7 P = 995.30

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3464 -.3548  
19.940 -.3426 -.3287  
39.905 -.3250 -.3164  
320.095 -.3061 -.3180  
340.060 -.3506 -.3408

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E66)

ALPHA ( 2 ) = -.376 BETA ( 3 ) = 3.950 MACH = 1.0995 RN/L = 4.4038 PO = 2123.7 P = 995.30

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3417	-.3377
19.940	-.3521	-.3590
39.905	-.3507	-.3685
320.095	-.3096	-.3252
340.060	-.3410	-.3457

ALPHA ( 3 ) = 3.953 BETA ( 1 ) = -.066 MACH = 1.1032 RN/L = 4.3993 PO = 2119.0 P = 988.53

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3831	-.3852
19.940	-.3673	-.3522
39.905	-.3543	-.3551
320.095	-.3318	-.3475
340.060	-.3804	-.3722

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ARC11-0231A80 OTS(SRB-OFF ORB-OFF)

30FLAP LR

(RE4E67) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = -4.000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -.327 BETA ( 1 ) = -4.072 MACH = 1.2493 RN/L = 4.4272 PO = 2123.0 P = 820.40

SECTION ( 1 ) 80FLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2610 -.2633  
19.940 -.2820 -.2719  
39.905 -.2731 -.2766  
320.095 -.2607 -.2729  
340.060 -.2475 -.2488

ALPHA ( 1 ) = -.317 BETA ( 2 ) = -.059 MACH = 1.2493 RN/L = 4.4272 PO = 2123.0 P = 820.40

SECTION ( 1 ) 80FLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2827 -.2885  
19.940 -.2654 -.2570  
39.905 -.2461 -.2542  
320.095 -.2475 -.2533  
340.060 -.2777 -.2764

ALPHA ( 1 ) = -.340 BETA ( 3 ) = 3.950 MACH = 1.2493 RN/L = 4.4272 PO = 2123.0 P = 820.40

SECTION ( 1 ) 80FLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2576 -.2497  
19.940 -.2836 -.2920  
39.905 -.2810 -.2989  
320.095 -.2427 -.2558  
340.060 -.2620 -.2656

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

3DFLAP LR

(RE4E67)

ALPHA ( 2 ) = .000 BETA ( 1 ) = -.063 MACH = 1.2510 RN/L = 4.4292 PO = 2123.9 P = 818.86

SECTION : 118DFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2851	-.2846
19.940	-.2713	-.2604
39.905	-.2554	-.2591
320.095	-.2518	-.2534
340.060	-.2707	-.2701

ALPHA ( 3 ) = 3.960 BETA ( 1 ) = -.066 MACH = 1.2490 RN/L = 4.4220 PO = 2123.2 P = 820.75

SECTION ( 1 ) 18DFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2842	-.2853
19.940	-.2678	-.2558
39.905	-.2564	-.2703
320.095	-.2558	-.2609
340.060	-.2710	-.2801

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(REWE68) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = 8.000 ELV-0B = -4.000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.944 BETA ( 1 ) = -.059 MACH = 1.4046 RN/L = 4.3918 PO = 2123.2 P = 662.88

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2613 -.2587  
19.940 -.2554 -.2417  
39.905 -.2483 -.2482  
320.095 -.2592 -.2507  
340.060 -.2508 -.2471

ALPHA ( 2 ) = -.320 BETA ( 1 ) = -4.072 MACH = 1.4079 RN/L = 4.3701 PO = 2122.5 P = 659.58

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1823 -.1832  
19.940 -.2046 -.2060  
39.905 -.2282 -.2137  
320.095 -.2203 -.2449  
340.060 -.1927 -.1976

ALPHA ( 2 ) = -.320 BETA ( 2 ) = -.059 MACH = 1.4079 RN/L = 4.3701 PO = 2122.5 P = 659.58

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2318 -.2400  
19.940 -.2034 -.2005  
39.905 -.1865 -.2020  
320.095 -.2177 -.2242  
340.060 -.2341 -.2382

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E68)

ALPHA ( 2 ) = - .347    BETA ( 3 ) = 3.953    MACH = 1.4079    RN/L = 4.3701    PO = 2122.5    P = 659.58

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO    1.0230    1.0500

PHI

.000	-.1933	-.1921
19.940	-.2184	-.2224
39.905	-.2280	-.2513
320.095	-.2225	-.2090
340.060	-.1986	-.2085

ALPHA ( 3 ) = 3.960    BETA ( 1 ) = -.063    MACH = 1.4068    RN/L = 4.3541    PO = 2121.8    P = 660.41

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO    1.0230    1.0500

PHI

.000	-.2265	-.2322
19.940	-.2095	-.1996
39.905	-.1775	-.1961
320.095	-.2025	-.2089
340.060	-.2167	-.2223

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E69) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-OB = -4.000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.920 BETA ( 1 ) = -.044 MACH = .59500 RN/L = 3.4551 PO = 2109.8 P = 1660.6

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2514 -.2343  
19.940 -.2356 -.2013  
39.905 -.2270 -.2256  
320.095 -.2388 -.2584  
340.060 -.2484 -.2535

ALPHA ( 2 ) = -.376 BETA ( 1 ) = -4.066 MACH = .59743 RN/L = 3.4632 PO = 2109.3 P = 1657.0

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2382 -.2441  
19.940 -.2397 -.2091  
39.905 -.2218 -.2184  
320.095 -.2542 -.2580  
340.060 -.2328 -.2362

ALPHA ( 2 ) = -.373 BETA ( 2 ) = -.050 MACH = .59743 RN/L = 3.4632 PO = 2109.3 P = 1657.0

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2578 -.2414  
19.940 -.2394 -.1968  
39.905 -.2249 -.2289  
320.095 -.2422 -.2653  
340.060 -.2518 -.2542



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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR (RE4E69)

ALPHA ( 2 ) = -.426 BETA ( 3 ) = 3.969 MACH = .59743 RN/L = 3.4632 PO = 2109.3 P = 1657.0

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2404	-.2138
19.940	-.2192	-.1937
39.905	-.2284	-.2390
320.095	-.2220	-.2480
340.060	-.2463	-.2527

ALPHA ( 3 ) = 3.947 BETA ( 1 ) = -.044 MACH = .59880 RN/L = 3.4697 PO = 2109.8 P = 1655.6

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2511	-.2508
19.940	-.2324	-.1999
39.905	-.2301	-.2339
320.095	-.2388	-.2671
340.060	-.2543	-.2624

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP LR

(RE4E70) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = -4.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.897 BETA ( 1 ) = -.041 MACH = .89150 RN/L = 4.1731 PO = 2102.0 P = 1254.3

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3239 -.3110  
19.940 -.3283 -.3005  
39.905 -.2946 -.3007  
320.095 -.3015 -.3163  
340.060 -.3194 -.3137

ALPHA ( 2 ) = -.383 BETA ( 1 ) = -4.063 MACH = .89050 RN/L = 4.1731 PO = 2101.3 P = 1255.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3071 -.3393  
19.940 -.3187 -.3026  
39.905 -.3098 -.2926  
320.095 -.3304 -.3399  
340.060 -.3302 -.3389

ALPHA ( 2 ) = -.357 BETA ( 2 ) = -.047 MACH = .89050 RN/L = 4.1731 PO = 2101.3 P = 1255.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3132 -.2859  
19.940 -.3148 -.2888  
39.905 -.2934 -.2835  
320.095 -.2915 -.3090  
340.060 -.3062 -.2959

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR (RE4E70)

ALPHA ( 2 ) = -.370 BETA ( 3 ) = 3.972 MACH = .89050 RN/L = 4.1731 PO = 2101.3 P = 1255.2

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3244	-.3103
19.940	-.3256	-.3226
39.905	-.3346	-.3603
320.095	-.2940	-.2916
340.060	-.3213	-.3283

ALPHA ( 3 ) = 4.020 BETA ( 1 ) = -.041 MACH = .89260 RN/L = 4.1823 PO = 2101.3 P = 1252.4

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3070	-.2883
19.940	-.3051	-.2802
39.905	-.2877	-.2850
320.095	-.2800	-.2977
340.060	-.3013	-.2966

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP LR

(RE4E71) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = -4.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.963 BETA ( 1 ) = -.066 MACH = 1.0977 RN/L = 4.3743 PO = 2107.0 P = 989.57

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3865 -.3856  
19.940 -.3735 -.3369  
39.905 -.3602 -.3599  
320.095 -.3690 -.4011  
340.060 -.3773 -.3918

ALPHA ( 2 ) = -.545 BETA ( 1 ) = -4.072 MACH = 1.1017 RN/L = 4.3738 PO = 2107.7 P = 985.11

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4083 -.4131  
19.940 -.4334 -.4269  
39.905 -.4286 -.4388  
320.095 -.4093 -.4362  
340.060 -.4004 -.3851

ALPHA ( 2 ) = -.667 BETA ( 2 ) = -.059 MACH = 1.1017 RN/L = 4.3738 PO = 2107.7 P = 985.11

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.4014 -.4040  
19.940 -.3943 -.3634  
39.905 -.3847 -.3887  
320.095 -.3830 -.4209  
340.060 -.3998 -.4159

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR (RE4E711)

ALPHA ( 2 ) = -.519 BETA ( 3 ) = 3.953 MACH = 1.1017 RN/L = 4.3738 PO = 2107.7 P = 985.11

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3824	-.3746
19.940	-.3941	-.4080
39.905	-.4103	-.4495
320.095	-.3683	-.4015
340.060	-.3832	-.3781

ALPHA ( 3 ) = 3.990 BETA ( 1 ) = -.066 MACH = 1.1080 RN/L = 4.3708 PO = 2107.0 P = 977.00

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4598	-.4536
19.940	-.4516	-.4273
39.905	-.4488	-.4645
320.095	-.4416	-.4707
340.060	-.4540	-.4684

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E72) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = 8.000 ELV-09 = -4.000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -4.003 BETA ( 1 ) = -.066 MACH = 1.2534 RN/L = 4.4018 PO = 2110.5 P = 811.05

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2461 -.2384  
19.940 -.2284 -.2073  
39.905 -.2235 -.2265  
320.095 -.2360 -.2569  
340.060 -.2407 -.2558

ALPHA ( 2 ) = -.502 BETA ( 1 ) = -4.072 MACH = 1.2515 RN/L = 4.3996 PO = 2110.5 P = 813.16

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2143 -.2192  
19.940 -.2322 -.2290  
39.905 -.2283 -.2374  
320.095 -.2156 -.2302  
340.060 -.2026 -.2037

ALPHA ( 2 ) = -.528 BETA ( 2 ) = -.059 MACH = 1.2515 RN/L = 4.3996 PO = 2110.5 P = 813.16

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2289 -.2216  
19.940 -.2223 -.2104  
39.905 -.2251 -.2375  
320.095 -.2259 -.2332  
340.060 -.2237 -.2250

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP LR

(RE4E72)

ALPHA ( 2 ) = -.538 BETA ( 3 ) = 3.953 MACH = 1.2515 RN/L = 4.3996 PO = 2110.5 P = 813.16

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2232	-.2148
19.940	-.2438	-.2518
39.905	-.2542	-.2817
320.095	-.2178	-.2363
340.050	-.2260	-.2229

ALPHA ( 3 ) = 3.953 BETA ( 1 ) = -.063 MACH = 1.2505 RN/L = 4.4051 PO = 2110.5 P = 814.22

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2330	-.2282
19.940	-.2294	-.2243
39.905	-.2368	-.2524
320.095	-.2319	-.2465
340.060	-.2263	-.2316

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E73) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = 8.000 ELV-08 = -4.000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -.522 BETA ( 1 ) = -4.072 MACH = 1.4084 RN/L = 4.3191 PO = 2112.8 P = 656.17

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1524 -.1566  
19.940 -.1755 -.1770  
39.905 -.1761 -.1941  
520.095 -.1652 -.1755  
340.060 -.1460 -.1427

ALPHA ( 1 ) = -.502 BETA ( 2 ) = -.059 MACH = 1.4084 RN/L = 4.3191 PO = 2112.8 P = 656.17

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1752 -.1718  
19.940 -.1625 -.1455  
39.905 -.1656 -.1839  
520.095 -.1793 -.1945  
340.060 -.1789 -.1834

ALPHA ( 1 ) = -.535 BETA ( 3 ) = 3.953 MACH = 1.4084 RN/L = 4.3191 PO = 2112.8 P = 656.17

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1534 -.1456  
19.940 -.1542 -.1670  
39.905 -.1911 -.2080  
520.095 -.1573 -.1786  
340.060 -.1577 -.1543

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP LR

(RE4E73)

ALPHA ( 2 ) = .000 BETA ( 1 ) = -.063 MACH = 1.4118 RN/L = 4.3069 PO = 2111.9 P = 652.69

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1709	-.1692
19.940	-.1607	-.1413
39.905	-.1619	-.1731
329.095	-.1780	-.1934
340.060	-.1743	-.1826

ALPHA ( 3 ) = .020 BETA ( 1 ) = -.063 MACH = 1.4046 RN/L = 4.3270 PO = 2113.3 P = 659.80

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1736	-.1713
19.940	-.1586	-.1445
39.905	-.1655	-.1807
329.095	-.1814	-.2002
340.060	-.1780	-.1839

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E74) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = .000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.950 BETA ( 1 ) = -.009 MACH = .60200 RN/L = 3.5046 PO = 2121.1 P = 1660.3

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2207 -.2126  
19.940 -.2083 -.1851  
39.905 -.1999 -.1982  
320.095 -.1995 -.2065  
340.060 -.2250 -.2186

ALPHA ( 2 ) = -.301 BETA ( 1 ) = -4.044 MACH = .60423 RN/L = 3.5076 PO = 2121.3 P = 1657.7

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2271 -.2168  
19.940 -.2229 -.2013  
39.905 -.2198 -.2121  
320.095 -.2057 -.2087  
340.060 -.2097 -.2044

ALPHA ( 2 ) = -.287 BETA ( 2 ) = -.006 MACH = .60423 RN/L = 3.5076 PO = 2121.3 P = 1657.7

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2206 -.2084  
19.940 -.2123 -.1915  
39.905 -.2068 -.1997  
320.095 -.1945 -.1988  
340.060 -.2223 -.2114

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E74)

ALPHA ( 2 ) = - .317    BETA ( 3 ) = 3.988    MACH = .60423    RN/L = 3.5076    PO = 2121.3    P = 1657.7

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO    1.0230   1.0500

PHI

.000	-.2219	-.1985
19.940	-.2011	-.1835
39.905	-.1998	-.2098
320.095	-.1876	-.2010
340.060	-.2129	-.2132

ALPHA ( 3 ) = 3.947    BETA ( 1 ) = -.009    MACH = .60510    RN/L = 3.5081    PO = 2121.8    P = 1656.9

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO    1.0230   1.0500

PHI

.000	-.2141	-.2055
19.940	-.2048	-.1819
39.905	-.1952	-.1962
320.095	-.1881	-.1941
340.060	-.2144	-.2085

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E75) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.980 BETA ( 1 ) = -.012 MACH = .90260 RN/L = 4.2512 PO = 2122.5 P = 1251.5

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2901 -.2748  
19.940 -.2889 -.2718  
39.905 -.2900 -.2802  
320.095 -.2621 -.2496  
340.060 -.2936 -.2805

ALPHA ( 2 ) = -.324 BETA ( 1 ) = -4.047 MACH = .90460 RN/L = 4.2477 PO = 2121.6 P = 1248.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3024 -.3005  
19.940 -.2977 -.2828  
39.905 -.2861 -.2817  
320.095 -.2601 -.2557  
340.060 -.2976 -.2962

ALPHA ( 2 ) = -.317 BETA ( 2 ) = -.306 MACH = .90460 RN/L = 4.2477 PO = 2121.6 P = 1248.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2710 -.2497  
19.940 -.2819 -.2586  
39.905 -.2789 -.2881  
320.095 -.2559 -.2490  
340.060 -.2678 -.2579

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ARC11-0231A80 OTS(SRB=OFF CRB=OFF)

BDFLAP LR

(RE4E75)

ALPHA ( 2 ) = -.396 BETA ( 3 ) = 3.984 MACH = .90460 RN/L = 2477 PO = 2121.6 P = 1248.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2823	-.2717
19.940	-.2817	-.2705
39.905	-.2892	-.2778
320.095	-.2608	-.2509
340.060	-.2787	-.2620

ALPHA ( 3 ) = 4.076 BETA ( 1 ) = -.012 MACH = .90480 RN/L = 4.2388 PO = 2121.1 P = 1247.6

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2646	-.2474
19.940	-.2670	-.2472
39.905	-.2673	-.2604
320.095	-.2387	-.2342
340.060	-.2686	-.2559

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E76) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.934 BETA ( 1 ) = .009 MACH = 1.1011 RN/L = 4.4175 PO = 2123.9 P = 993.44

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3396 -.3373  
19.940 -.3324 -.3118  
39.905 -.3210 -.3145  
320.095 -.3065 -.3103  
340.060 -.3421 -.3425

ALPHA ( 2 ) = -.238 BETA ( 1 ) = -3.994 MACH = 1.1063 RN/L = 4.4170 PO = 2123.4 P = 986.84

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3587 -.3441  
19.940 -.3744 -.3559  
39.905 -.3659 -.3620  
320.095 -.3338 -.3433  
340.060 -.3332 -.3312

ALPHA ( 2 ) = -.307 BETA ( 2 ) = .009 MACH = 1.1063 RN/L = 4.4170 PO = 2123.4 P = 986.84

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3205 -.3233  
19.940 -.3107 -.3200  
39.905 -.2979 -.2912  
320.095 -.2757 -.2837  
340.060 -.3235 -.3233

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E76)

ALPHA ( 2 ) = -.271 BETA ( 3 ) = 4.034 MACH = 1.1063 RN/L = 4.4170 PO = 2123.4 P = 986.84

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3269	-.3282
19.940	-.3387	-.3476
39.905	-.3384	-.3556
320.095	-.2989	-.3100
340.060	-.3283	-.3290

ALPHA ( 3 ) = 4.026 BETA ( 1 ) = .012 MACH = 1.1056 RN/L = 4.4135 PO = 2121.8 P = 986.83

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3582	-.3673
19.940	-.3523	-.3353
39.905	-.3257	-.3321
320.095	-.3102	-.3273
340.060	-.3606	-.3634

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E77) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.881 BETA ( 1 ) = .012 MACH = 1.2507 RN/L = 4.4817 PO = 2123.2 P = 818.92

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2699 -.2714  
19.940 -.2440 -.2367  
39.905 -.2342 -.2466  
320.095 -.2561 -.2631  
340.060 -.2771 -.2834

ALPHA ( 2 ) = -.238 BETA ( 1 ) = -3.994 MACH = 1.2534 RN/L = 4.4652 PO = 2123.9 P = 816.27

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2500 -.2473  
19.940 -.2695 -.2602  
39.905 -.2629 -.2646  
320.095 -.2517 -.2652  
340.060 -.2367 -.2381

ALPHA ( 2 ) = -.258 BETA ( 2 ) = .009 MACH = 1.2534 RN/L = 4.4652 PO = 2123.9 P = 816.27

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2761 -.2786  
19.940 -.2564 -.2523  
39.905 -.2400 -.2465  
320.095 -.2459 -.2497  
340.060 -.2734 -.2783

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E77)

ALPHA ( 2 ) = -.281 BETA ( 3 ) = 4.031 MACH = 1.2534 RN/L = 4.4652 PO = 2123.9 P = 816.27

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2504	-.2457
19.940	-.2778	-.2658
39.905	-.2763	-.2918
320.095	-.2791	-.2513
340.060	-.2530	-.2549

ALPHA ( 3 ) = 3.953 BETA ( 1 ) = .016 MACH = 1.2486 RN/L = 4.4578 PO = 2122.5 P = 820.98

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2728	-.2790
19.940	-.2592	-.2476
39.905	-.2508	-.2638
320.095	-.2524	-.2564
340.060	-.2630	-.2739

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BOFLAP LR

(REWE78) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.980 BETA ( 1 ) = -.066 MACH = 1.4100 RN/L = 4.3522 PO = 2122.5 P = 657.63

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2626 -.2612  
19.940 -.2567 -.2433  
39.905 -.2529 -.2540  
320.095 -.2605 -.2523  
340.060 -.2553 -.2502

ALPHA ( 2 ) = -.238 BETA ( 1 ) = -4.072 MACH = 1.4075 RN/L = 4.3434 PO = 2123.2 P = 660.25

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1862 -.1849  
19.940 -.2109 -.2083  
39.905 -.2322 -.2180  
320.095 -.2204 -.2437  
340.060 -.1945 -.1979

ALPHA ( 2 ) = -.228 BETA ( 2 ) = -.063 MACH = 1.4075 RN/L = 4.3434 PO = 2123.2 P = 660.25

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2399 -.2427  
19.940 -.2174 -.2110  
39.905 -.1974 -.2077  
320.095 -.2234 -.2253  
340.060 -.2354 -.2385

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E78)

ALPHA ( 2 ) = -.261 BETA ( 3 ) = 3.953 MACH = 1.4075 RN/L = 4.3434 PO = 2123.2 P = 660.25

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1983	-.1973
19.940	-.2198	-.2268
39.905	-.2315	-.2541
320.095	-.2229	-.2083
340.060	-.2039	-.2118

ALPHA ( 3 ) = 3.920 BETA ( 1 ) = -.066 MACH = 1.4043 RN/L = 4.3377 PO = 2123.2 P = 663.16

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2253	-.2307
19.940	-.2081	-.1987
39.905	-.1939	-.1984
320.095	-.2325	-.2113
340.060	-.2203	-.2290

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E79) ( 14 JAN 75 )

REFERENCE DATA

GREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = .000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -4.105 BETA ( 1 ) = -.006 MACH = .59090 RN/L = 3.4170 PO = 2104.1 P = 1661.4

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2436 -.2358  
19.940 -.2348 -.1938  
39.905 -.2299 -.2181  
320.095 -.2412 -.2586  
340.060 -.2522 -.2609

ALPHA ( 2 ) = -.383 BETA ( 1 ) = -4.047 MACH = .59743 RN/L = 3.4453 PO = 2104.1 P = 1653.0

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2468 -.2458  
19.940 -.2354 -.2193  
39.905 -.2234 -.2196  
320.095 -.2532 -.2597  
340.060 -.2389 -.2506

ALPHA ( 2 ) = -.380 BETA ( 2 ) = -.009 MACH = .59743 RN/L = 3.4453 PO = 2104.1 P = 1653.0

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2496 -.2407  
19.940 -.2393 -.1967  
39.905 -.2318 -.2324  
320.095 -.2441 -.2679  
340.060 -.2547 -.2598

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR (RE4E79)

ALPHA ( 2 ) = -.499 BETA ( 3 ) = 3.981 MACH = .59743 RN/L = 3.4453 PO = 2104.1 P = 1653.0

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2321 -.2141  
19.940 -.2178 -.1821  
39.905 -.2291 -.2424  
320.095 -.2243 -.2503  
340.060 -.2461 -.2410

ALPHA ( 3 ) = 3.960 BETA ( 1 ) = -.012 MACH = .59700 RN/L = 3.4428 PO = 2104.1 P = 1653.6

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2555 -.2439  
19.940 -.2247 -.2042  
39.905 -.2222 -.2291  
320.095 -.2355 -.2709  
340.060 -.2530 -.2698

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E80) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-OB = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.897 BETA ( 1 ) = -.009 MACH = .89640 RN/L = 4.1815 PO = 2097.1 P = 1244.7

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3295 -.3082  
19.940 -.3206 -.2980  
39.905 -.3023 -.2972  
320.095 -.3092 -.3139  
340.060 -.3269 -.3145

ALPHA ( 2 ) = -.353 BETA ( 1 ) = -4.050 MACH = .90047 RN/L = 4.1929 PO = 2097.3 P = 1239.4

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3071 -.3370  
19.940 -.3188 -.3009  
39.905 -.3061 -.2993  
320.095 -.3361 -.3481  
340.060 -.3281 -.3418

ALPHA ( 2 ) = -.363 BETA ( 2 ) = -.009 MACH = .90047 RN/L = 4.1929 PO = 2097.3 P = 1239.4

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3137 -.2986  
19.940 -.3175 -.2907  
39.905 -.3035 -.2954  
320.095 -.3062 -.3137  
340.060 -.3046 -.2960

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ARC11-0231A80 OTS(SRB=N ORB=N ) BOFLAP LR (RE4E80)

ALPHA ( 2 ) = -.519 BETA ( 3 ) = 3.981 MACH = .90047 RN/L = 4.1929 PO = 2097.3 P = 1239.4

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3108	-.3024
19.940	-.3250	-.3154
39.905	-.3485	-.3620
320.095	-.3050	-.2986
340.060	-.3090	-.2979

ALPHA ( 3 ) = 3.980 BETA ( 1 ) = -.012 MACH = .89790 RN/L = 4.1840 PO = 2097.8 P = 1243.1

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3081	-.2921
19.940	-.3001	-.2777
39.905	-.2886	-.2783
320.095	-.2911	-.2904
340.060	-.3006	-.2942

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E81) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.937 BETA ( 1 ) = .012 MACH = 1.0996 RN/L = 4.3760 PO = 2105.5 P = 986.57

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3402 -.3328  
19.940 -.3252 -.2962  
39.905 -.3134 -.3141  
320.095 -.3220 -.3536  
340.060 -.3389 -.3560

ALPHA ( 2 ) = -.396 BETA ( 1 ) = -3.994 MACH = 1.1021 RN/L = 4.3810 PO = 2106.0 P = 983.89

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3317 -.3292  
19.940 -.3525 -.3429  
39.905 -.3458 -.3496  
320.095 -.3295 -.3493  
340.060 -.3176 -.3222

ALPHA ( 2 ) = -.380 BETA ( 2 ) = .009 MACH = 1.1021 RN/L = 4.3810 PO = 2106.0 P = 983.89

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3148 -.3111  
19.940 -.3058 -.2827  
39.905 -.3313 -.3051  
320.095 -.2997 -.3290  
340.060 -.3130 -.3387



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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E81)

ALPHA ( 2 ) = -.393 BETA ( 3 ) = 4.031 MACH = 1.1021 RN/L = 4.3810 PO = 2106.0 P = 983.89

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3351	-.3241
19.940	-.3402	-.3544
39.905	-.3561	-.3939
320.095	-.3145	-.3507
340.060	-.3327	-.3392

ALPHA ( 3 ) = 3.894 BETA ( 1 ) = .012 MACH = 1.1031 RN/L = 4.3843 PO = 2106.2 P = 982.65

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3570	-.3630
19.940	-.3477	-.3340
39.905	-.3432	-.3509
320.095	-.3391	-.3683
340.060	-.3576	-.3754

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP LR

(RE4E82) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2630.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = .000  
RN L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.967 BETA ( 1 ) = .016 MACH = 1.2439 RN/L = 4.4220 PO = 2109.1 P = 820.87

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2481 -.2416  
19.940 -.2362 -.2147  
39.905 -.2373 -.2398  
320.095 -.2446 -.2623  
340.060 -.2469 -.2520

ALPHA ( 2 ) = -.396 BETA ( 1 ) = -3.994 MACH = 1.2511 RN/L = 4.4175 PO = 2109.6 P = 813.25

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2123 -.2105  
19.940 -.2240 -.2220  
39.905 -.2226 -.2334  
320.095 -.2119 -.2283  
340.060 -.1945 -.1957

ALPHA ( 2 ) = -.396 BETA ( 2 ) = .009 MACH = 1.2511 RN/L = 4.4175 PO = 2109.6 P = 813.25

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2216 -.2132  
19.940 -.2193 -.2087  
39.905 -.2258 -.2416  
320.095 -.2214 -.2345  
340.060 -.2220 -.2240

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP LR

(RE4E82)

ALPHA ( 2 ) = -.380 BETA ( 3 ) = 4.031 MACH = 1.2511 RN/L = 4.4175 PO = 2109.6 P = 813.25

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2151	-.2044
19.940	-.2335	-.2464
39.905	-.2443	-.2730
59.095	-.2100	-.2300
79.060	-.2146	-.2115

ALPHA ( 3 ) = 3.877 BETA ( 1 ) = .009 MACH = 1.2502 RN/L = 4.4099 PO = 2109.1 P = 813.99

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2277	-.2243
19.940	-.2287	-.2243
39.905	-.2350	-.2557
59.095	-.2242	-.2447
79.060	-.2245	-.2318

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ARC11-0 1A80 OTS(SRB=N ORB=N )

BDFLAP LR

(RE4EB3) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.983 BETA ( 1 ) = -.066 MACH = 1.4086 RN/L = 4.3187 PO = 2118.3 P = 657.67

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1861 -.1796  
19.940 -.1868 -.1761  
39.905 -.1955 -.2066  
320.095 -.1943 -.2029  
340.060 -.1900 -.1874

ALPHA ( 2 ) = -.380 BETA ( 1 ) = -4.059 MACH = 1.4054 RN/L = 4.3138 PO = 2117.4 P = 660.32

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1611 -.1633  
19.940 -.1782 -.1807  
39.905 -.1792 -.1949  
320.095 -.1684 -.1790  
340.060 -.1487 -.1444

ALPHA ( 2 ) = -.380 BETA ( 2 ) = -.059 MACH = 1.4054 RN/L = 4.3138 PO = 2117.4 P = 660.32

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1749 -.1659  
19.940 -.1650 -.1486  
39.905 -.1714 -.1803  
320.095 -.1819 -.1801  
340.060 -.1780 -.1845

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR (RE4E83)

ALPHA ( 2 ) = -.409 BETA ( 3 ) = 3.953 MACH = 1.4054 RN/L = 4.3138 PO = 2117.4 P = 660.32

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1507	-.1469
19.940	-.1669	-.1669
39.905	-.1832	-.2090
320.095	-.1562	-.1747
340.060	-.1533	-.1534

ALPHA ( 3 ) = 3.828 BETA ( 1 ) = .000 MACH = 1.4102 RN/L = 4.2670 PO = 2116.9 P = 655.67

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1418	-.1628
19.940	-.1491	-.1272
39.905	-.1419	-.1549
320.095	-.1632	-.1754
340.060	-.1618	-.1771

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E84) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = 2.000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.953 BETA ( 1 ) = -.044 MACH = .59570 RN/L = 3.4174 PO = 2114.7 P = 1663.5

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2483 -.2395  
19.940 -.2290 -.2099  
39.905 -.2141 -.2116  
320.095 -.2062 -.2147  
340.060 -.2555 -.2522

ALPHA ( 2 ) = -.284 BETA ( 1 ) = -4.063 MACH = .59877 RN/L = 3.4302 PO = 2114.0 P = 1659.0

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2284 -.2172  
19.940 -.2180 -.2071  
39.905 -.2102 -.2044  
320.095 -.2034 -.2031  
340.060 -.2108 -.2098

ALPHA ( 2 ) = -.291 BETA ( 2 ) = -.047 MACH = .59877 RN/L = 3.4302 PO = 2114.0 P = 1659.0

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2156 -.2051  
19.940 -.2122 -.1769  
39.905 -.2017 -.1953  
320.095 -.1923 -.1940  
340.060 -.2105 -.2041

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E84)

ALPHA ( 2 ) = -.320 BETA ( 3 ) = 3.969 MACH = .59877 RN/L = 3.4302 PO = 2114.0 P = 1659.0

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2247	-.2125
19.940	-.2040	-.1707
39.905	-.2034	-.2135
320.095	-.1932	-.2054
340.060	-.2251	-.2288

ALPHA ( 3 ) = 3.973 BETA ( 1 ) = -.044 MACH = .59840 RN/L = 3.4294 PO = 2112.6 P = 1658.4

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2105	-.2061
19.940	-.2058	-.1837
39.905	-.1945	-.1895
320.095	-.1826	-.1922
340.060	-.2119	-.2032

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E85) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
L-F = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-OB = 2.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.937 BETA ( 1 ) = -.050 MACH = .90250 RN/L = 4.2680 PO = 2118.3 P = 1249.1

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0300

PHI  
.000 -.2871 -.2694  
19.940 -.2826 -.2658  
39.905 -.2850 -.2824  
320.095 -.2569 -.2494  
340.060 -.2855 -.2734

ALPHA ( 2 ) = -.301 BETA ( 1 ) = -4.066 MACH = .89937 RN/L = 4.2393 PO = 2116.4 P = 1252.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2903 -.2933  
19.940 -.2900 -.2844  
39.905 -.2902 -.2740  
320.095 -.2642 -.2554  
340.060 -.2921 -.2833

ALPHA ( 2 ) = -.304 BETA ( 2 ) = -.047 MACH = .89937 RN/L = 4.2393 PO = 2116.4 P = 1252.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2856 -.2708  
19.940 -.2814 -.2750  
39.905 -.2931 -.2814  
320.095 -.2567 -.2407  
340.060 -.2820 -.2720



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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E85)

ALPHA ( 2 ) = - .320 BETA ( 3 ) = 3.969 MACH = .89937 RN/L = 4.2393 PO = 2116.4 P = 1252.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2741	-.2691
19.940	-.2841	-.2739
39.905	-.2827	-.2761
320.095	-.2570	-.2480
340.060	-.2797	-.2637

ALPHA ( 3 ) = 3.977 BETA ( 1 ) = -.044 MACH = .89910 RN/L = 4.2250 PO = 2114.7 P = 1251.5

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2619	-.2475
19.940	-.2645	-.2517
39.905	-.2611	-.2517
320.095	-.2346	-.2270
340.060	-.2584	-.2514

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(REWE86) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 2.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -4.013 BETA ( 1 ) = .016 MACH = 1.1058 RN/L = 4.4715 PO = 2118.3 P = 985.01

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3333 -.3338  
19.940 -.3208 -.3046  
39.905 -.3047 -.3010  
320.095 -.2934 -.3014  
340.060 -.3302 -.3326

ALPHA ( 2 ) = -.304 BETA ( 1 ) = -3.991 MACH = 1.1047 RN/L = 4.4560 PO = 2115.9 P = 985.23

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3387 -.3365  
19.940 -.3642 -.3486  
39.905 -.3585 -.3529  
320.095 -.3314 -.3415  
340.060 -.3256 -.3266

ALPHA ( 2 ) = -.267 BETA ( 2 ) = .009 MACH = 1.1047 RN/L = 4.4560 PO = 2115.9 P = 985.23

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3305 -.3367  
19.940 -.3201 -.3055  
39.905 -.3037 -.3013  
320.095 -.2901 -.3040  
340.060 -.3349 -.3352

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E86)

ALPHA ( 2 ) = -.327 BETA ( 3 ) = 4.034 MACH = 1.1047 RN/L = 4.4560 PO = 2115.9 P = 985.23

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3195 -.3202  
19.940 -.3319 -.3395  
39.905 -.3304 -.3478  
320.095 -.2685 -.3078  
340.060 -.3205 -.3237

ALPHA ( 3 ) = 3.985 BETA ( 1 ) = .016 MACH = 1.1038 RN/L = 4.4466 PO = 2116.2 P = 986.43

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3620 -.3652  
19.940 -.3476 -.3390  
39.905 -.3282 -.3333  
320.095 -.3100 -.3321  
340.060 -.3593 -.3650

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TABULATED SOURCE DATA - IABO

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ARC11-023IABO OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E87) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = 8.000 ELV-OB = 2.000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.871 BETA ( 1 ) = -.044 MACH = .59840 RN/L = 3.4324 PO = 2111.9 P = 1657.8

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2503 -.2377  
19.940 -.2208 -.2014  
39.905 -.2221 -.2177  
320.095 -.2358 -.2587  
340.060 -.2537 -.2581

ALPHA ( 2 ) = -.350 BETA ( 1 ) = -4.066 MACH = .59830 RN/L = 3.4341 PO = 2111.9 P = 1657.9

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2348 -.2399  
19.940 -.2306 -.2133  
39.905 -.2221 -.2160  
320.095 -.2472 -.2500  
340.060 -.2338 -.2423

ALPHA ( 2 ) = -.380 BETA ( 2 ) = -.050 MACH = .59830 RN/L = 3.4341 PO = 2111.9 P = 1657.9

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2498 -.2398  
19.940 -.2361 -.2015  
39.905 -.2324 -.2300  
320.095 -.2431 -.2722  
340.060 -.2472 -.2567

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E87)

ALPHA ( 2 ) = -.423 BETA ( 3 ) = 3.969 MACH = .59830 RN/L = 3.4341 PO = 2111.9 P = 1657.9

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2312	-.2067
19.940	-.2070	-.1785
39.905	-.2162	-.2407
320.095	-.2200	-.2514
340.060	-.2352	-.2437

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = -.047 MACH = .59740 RN/L = 3.4327 PO = 2111.2 P = 1658.5

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2469	-.2411
19.940	-.2310	-.1962
39.905	-.2224	-.2278
320.095	-.2358	-.2658
340.060	-.2524	-.2632

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E88) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0300 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 2.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.963 BETA ( 1 ) = -.044 MACH = .89500 RN/L = 4.1900 PO = 2107.0 P = 1252.5

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3208 -.3073  
19.940 -.3232 -.3041  
39.905 -.2972 -.2942  
320.095 -.3070 -.3107  
340.060 -.3141 -.3131

ALPHA ( 2 ) = -.393 BETA ( 1 ) = -4.066 MACH = .89813 RN/L = 4.1944 PO = 2106.2 P = 1247.9

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3106 -.3351  
19.940 -.3142 -.2966  
39.905 -.3066 -.3054  
320.095 -.3344 -.3468  
340.060 -.3281 -.3441

ALPHA ( 2 ) = -.376 BETA ( 2 ) = -.047 MACH = .89813 RN/L = 4.1944 PO = 2106.2 P = 1247.9

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3142 -.2928  
19.940 -.3164 -.2947  
39.905 -.3075 -.2998  
320.095 -.3047 -.3081  
340.060 -.2926 -.2824

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR (REWE88)

ALPHA ( 2 ) = -.409 BETA ( 3 ) = 3.969 MACH = .89813 RN/L = 4.1944 PO = 2106.2 P = 1247.9

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3002	-.2890
19.940	-.3156	-.3064
39.905	-.3431	-.3426
320.095	-.2980	-.2828
340.060	-.2982	-.2938

ALPHA ( 3 ) = 3.940 BETA ( 1 ) = -.044 MACH = .89700 RN/L = 4.1933 PO = 2107.0 P = 1249.8

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3078	-.2938
19.940	-.3012	-.2759
39.905	-.2864	-.2777
320.095	-.2787	-.2892
340.060	-.3103	-.2963

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E89) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2630.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1230.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = 2.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.970 BETA ( 1 ) = .016 MACH = 1.1009 RN/L = 4.4134 PO = 2105.5 P = 985.03

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3357 -.3358  
19.940 -.3208 -.2919  
39.905 -.3110 -.3113  
59.865 -.3213 -.3250  
79.830 -.3323 -.3555

ALPHA ( 2 ) = -.436 BETA ( 1 ) = -3.994 MACH = 1.1059 RN/L = 4.4313 PO = 2113.1 P = 982.43

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3246 -.3205  
19.940 -.3441 -.3354  
39.905 -.3367 -.3448  
59.865 -.3280 -.3432  
79.830 -.3104 -.3133

ALPHA ( 2 ) = -.429 BETA ( 2 ) = .009 MACH = 1.1059 RN/L = 4.4313 PO = 2113.1 P = 982.43

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3132 -.3048  
19.940 -.3036 -.2812  
39.905 -.2968 -.3024  
59.865 -.3002 -.3317  
79.830 -.3081 -.3285



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ARC11-0231A80 OTS(SR=N ORB=N ) BDFLAP LR (RE4E89)

ALPHA ( 2 ) = -.466 BETA ( 3 ) = 4.031 MACH = 1.1059 RN/L = 4.4313 PO = 2113.1 P = 982.43

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3158	-.3094
19.940	-.3257	-.3405
39.905	-.3416	-.3777
320.095	-.3042	-.3368
340.060	-.3145	-.3173

ALPHA ( 3 ) = 3.851 BETA ( 1 ) = .012 MACH = 1.1043 RN/L = 4.4260 PO = 2112.6 P = 984.21

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3522	-.3528
19.940	-.3481	-.3212
39.905	-.3392	-.3516
320.095	-.3359	-.3662
340.060	-.3521	-.3743

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) - BDFLAP LR

(RE4E90) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = 4.000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.960 BETA ( 1 ) = -.003 MACH = .59840 RN/L = 3.4955 PO = 2121.1 P = 1655.1

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2250 -.2158  
19.940 -.2172 -.1897  
39.905 -.2121 -.2033  
320.095 -.2040 -.2077  
340.060 -.2290 -.2179

ALPHA ( 2 ) = -.267 BETA ( 1 ) = -4.003 MACH = .59907 RN/L = 3.4936 PO = 2121.1 P = 1664.2

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2327 -.2161  
19.940 -.2229 -.2056  
39.905 -.2101 -.1999  
320.095 -.2059 -.2059  
340.060 -.2148 -.2097

ALPHA ( 2 ) = -.291 BETA ( 2 ) = .012 MACH = .59907 RN/L = 3.4936 PO = 2121.1 P = 1664.2

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2183 -.2085  
19.940 -.2146 -.1920  
39.905 -.2068 -.1961  
320.095 -.1994 -.1987  
340.060 -.2156 -.2072

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) BDFLAP LE:

(RE4E90)

ALPHA ( 2 ) = -.294 BETA ( 3 ) = 4.028 MACH = .59907 RN/L = 3.4936 PO = 2121.1 P = 1664.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2173	-.1954
19.940	-.2062	-.1744
39.905	-.2089	-.2075
320.095	-.1996	-.1956
340.060	-.2146	-.2085

ALPHA ( 3 ) = 3.973 BETA ( 1 ) = .006 MACH = .59860 RN/L = 3.4896 PO = 2121.1 P = 1664.8

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2162	-.2061
19.940	-.2071	-.1777
39.905	-.1977	-.1953
320.095	-.1914	-.1931
340.060	-.2240	-.2027

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ARC1:-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LF

(RE4E91) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2630.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = 4.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.990 BETA ( 1 ) = -.003 MACH = .90430 RN/L = 4.2125 PO = 2104.8 P = 1238.7

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2932 -.2812  
19.940 -.2908 -.2722  
39.905 -.2857 -.2785  
59.895 -.2575 -.2588  
79.860 -.2916 -.2768

ALPHA ( 2 ) = -.267 BETA ( 1 ) = -4.003 MACH = .90037 RN/L = 4.1975 PO = 2104.1 P = 1243.6

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3008 -.3012  
19.940 -.2978 -.2874  
39.905 -.2900 -.2722  
59.895 -.2631 -.2549  
79.860 -.3056 -.2959

ALPHA ( 2 ) = -.291 BETA ( 2 ) = .012 MACH = .90037 RN/L = 4.1975 PO = 2104.1 P = 1243.6

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2915 -.2799  
19.940 -.2539 -.2719  
39.905 -.2927 -.2793  
59.895 -.2542 -.2532  
79.860 -.2873 -.2783

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) BDFLAP LR (RE4E91)

ALPHA ( 2 ) = - .284 BETA ( 3 ) = 4.028 MACH = .90037 RN/L = 4.1975 PO = 2104.1 P = 1243.6

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2723	-.2011
19.940	-.2801	-.2627
39.905	-.2881	-.2695
59.870	-.2624	-.2471
79.835	-.2807	-.2623

ALPHA ( 3 ) = 3.970 BETA ( 1 ) = -.003 MACH = .90050 RN/L = 4.1955 PO = 2102.7 P = 1242.6

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2620	-.2518
19.940	-.2678	-.2411
39.905	-.2722	-.2578
59.870	-.2408	-.2321
79.835	-.2738	-.2614

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LF

(REWE92) ( 14 JAN 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
 LREF = 1290.3000 IN. YMRP = .0000 IN.  
 BREF = 1290.3000 IN. ZMRP = .0000 IN.  
 SCALE = .0200

## PARAMETRIC DATA

ELV-1B = 4.000 ELV-OB = 4.000  
 RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.957 BETA ( 1 ) = .003 MACH = 1.0978 RN/L = 4.3356 PO = 2110.5 P = 991.11

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3557 -.3535  
 19.940 -.3449 -.3290  
 39.905 -.3290 -.3231  
 320.095 -.3163 -.3180  
 340.060 -.3540 -.3513

ALPHA ( 2 ) = -.284 BETA ( 1 ) = -3.994 MACH = 1.0997 RN/L = 4.3377 PO = 2110.5 P = 988.87

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3614 -.3472  
 19.940 -.3830 -.3684  
 39.905 -.3735 -.3565  
 320.095 -.3453 -.3495  
 340.060 -.3467 -.3439

ALPHA ( 2 ) = -.281 BETA ( 2 ) = .000 MACH = 1.0997 RN/L = 4.3377 PO = 2110.5 P = 988.87

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3329 -.3356  
 19.940 -.3222 -.3114  
 39.905 -.3091 -.3059  
 320.095 -.2930 -.3011  
 340.060 -.3368 -.3334

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) BDFLAP LR

(RE4E92)

ALPHA ( 2 ) = -.320 BETA ( 3 ) = 4.028 MACH = 1.0997 RN/L = 4.3377 PO = 2110.5 P = 988.87

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3523	-.3465
19.940	-.3613	-.3671
39.905	-.3613	-.3755
320.095	-.3191	-.3330
340.060	-.3502	-.3512

ALPHA ( 3 ) = 3.977 BETA ( 1 ) = .003 MACH = 1.0998 RN/L = 4.3390 PO = 2109.8 P = 988.41

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3720	-.3747
19.940	-.3532	-.3428
39.905	-.3392	-.3401
320.095	-.3233	-.3373
340.060	-.3691	-.3725

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E93) ( 14 JAN 75 )

## REFERENCE DATA

SPRF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
 LREF = 1290.3000 IN. YMRP = .0000 IN.  
 BREF = 1290.3000 IN. ZMRP = .0000 IN.  
 SCALE = .0200

## PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = 4.000  
 RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.953 BETA ( 1 ) = .006 MACH = 1.2528 RN/L = 4.3463 PO = 2110.5 P = 811.76

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2719 -.2640  
 19.940 -.2497 -.2366  
 39.905 -.2407 -.2480  
 320.095 -.2563 -.2581  
 340.060 -.2765 -.2811

ALPHA ( 2 ) = -.238 BETA ( 1 ) = -3.997 MACH = 1.2535 RN/L = 4.3462 PO = 2111.4 P = 811.30

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2613 -.2583  
 19.940 -.2609 -.2664  
 39.905 -.2704 -.2677  
 320.095 -.2515 -.2644  
 340.060 -.2439 -.2439

ALPHA ( 2 ) = -.231 BETA ( 2 ) = .000 MACH = 1.2535 RN/L = 4.3462 PO = 2111.4 P = 811.30

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2813 -.2836  
 19.940 -.2627 -.2514  
 39.905 -.2454 -.2442  
 320.095 -.2456 -.2451  
 340.060 -.2789 -.2800

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LF

(RE4E93)

ALPHA ( 2 ) = -.284 BETA ( 3 ) = 4.034 MACH = 1.2535 RN/L = 4.3462 PO = 2111.4 P = 811.30

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2578	-.2484
19.940	-.2853	-.2899
39.905	-.2833	-.2926
320.095	-.2445	-.2455
340.060	-.2608	-.2635

ALPHA ( 3 ) = 3.977 BETA ( 1 ) = .000 MACH = 1.2524 RN/L = 4.3409 PO = 2110.5 P = 812.19

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2797	-.2779
19.940	-.2522	-.2501
39.905	-.2554	-.2619
320.095	-.2513	-.2519
340.060	-.2700	-.2779

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ARC11-0231A80 JTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E94) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = 4.000 ELV-OB = 4.000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.887 BETA ( 1 ) = .016 MACH = 1.4070 RN/L = 4.3762 PO = 2135.2 P = 664.38

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2640 -.2573  
19.940 -.2572 -.2426  
39.905 -.2491 -.2454  
320.095 -.2577 -.2420  
340.060 -.2564 -.2516

ALPHA ( 2 ) = -.271 BETA ( 1 ) = -3.991 MACH = 1.4086 RN/L = 4.3552 PO = 2132.6 P = 662.12

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.1857 -.1855  
19.940 -.2128 -.2076  
39.905 -.2421 -.2205  
320.095 -.2156 -.2327  
340.060 -.1954 -.1928

ALPHA ( 2 ) = -.251 BETA ( 2 ) = .009 MACH = 1.4086 RN/L = 4.3552 PO = 2132.6 P = 662.12

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2362 -.2392  
19.940 -.2100 -.1953  
39.905 -.1892 -.1949  
320.095 -.2185 -.2167  
340.060 -.2353 -.2349

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4E94)

ALPHA ( 2 ) = -.284 BETA ( 3 ) = 4.031 MACH = 1.4086 RN/L = 4.3552 PO = 2132.6 P = 662.12

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1973	-.1936
19.940	-.2209	-.2189
39.905	-.2330	-.2490
320.095	-.2771	-.2082
340.060	-.2610	-.2105

ALPHA ( 3 ) = 3.443 BETA ( 1 ) = .006 MACH = 1.3982 RN/L = 4.3323 PO = 2123.9 P = 669.12

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2301	-.2369
19.940	-.2124	-.1943
39.905	-.1881	-.1993
320.095	-.2024	-.2053
340.060	-.2271	-.2320

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LF

(RE4E95) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 4.000 ELV-0B = 4.000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.960 BETA ( 1 ) = .006 MACH = .58310 RN/L = 3.4103 PO = 2111.9 P = 1677.5

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2571 -.2557  
19.940 -.2455 -.2045  
39.905 -.2353 -.2271  
320.095 -.2495 -.2630  
340.060 -.2783 -.2807

ALPHA ( 2 ) = -.297 BETA ( 1 ) = -4.003 MACH = .59743 RN/L = 3.4671 PO = 2111.9 P = 1659.1

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2477 -.2532  
19.940 -.2426 -.2188  
39.905 -.2222 -.2055  
320.095 -.2478 -.2526  
340.060 -.2467 -.2558

ALPHA ( 2 ) = -.307 BETA ( 2 ) = .012 MACH = .59743 RN/L = 3.4671 PO = 2111.9 P = 1659.1

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2456 -.2344  
19.940 -.2313 -.1929  
39.905 -.2330 -.2215  
320.095 -.2422 -.2630  
340.060 -.2401 -.2442

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ARC11-0231A80 OTS(SRB=N ORB=N )

BOFLAP LR

(RE4E95)

ALPHA ( 2 ) = -.376 BETA ( 3 ) = 4.022 MACH = .59743 RN/L = 3.4671 PO = 2111.9 P = 1659.1

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2505	-.2237
19.940	-.2188	-.1965
39.905	-.2305	-.2391
320.095	-.2244	-.2577
340.060	-.2614	-.2627

ALPHA ( 3 ) = 4.020 BETA ( 1 ) = -.003 MACH = .60100 RN/L = 3.4818 PO = 2111.9 P = 1654.5

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2476	-.2438
19.940	-.2189	-.1943
39.905	-.2232	-.2236
320.095	-.2370	-.2627
340.060	-.2424	-.2584

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LF

(RE4E96) ( 14 JAN 75 )

REFERENCE DATA

SPEF = 2590.0000 SQ.FT. XMRP = .0000 IN.  
LPEF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = 4.000 ELV-0B = 4.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.891 BETA ( 1 ) = -.003 MACH = .90360 RN/L = 4.2068 PO = 2106.2 P = 1240.4

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3295 -.3201  
19.940 -.3237 -.3082  
39.905 -.3042 -.2986  
320.095 -.3063 -.3115  
340.060 -.3265 -.3197

ALPHA ( 2 ) = -.390 BETA ( 1 ) = -4.003 MACH = .89957 RN/L = 4.1991 PO = 2105.5 P = 1245.5

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3265 -.3454  
19.940 -.3267 -.3127  
39.905 -.3050 -.3040  
320.095 -.3334 -.3512  
340.060 -.3432 -.3577

ALPHA ( 2 ) = -.360 BETA ( 2 ) = .012 MACH = .89957 RN/L = 4.1991 PO = 2105.5 P = 1245.5

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3287 -.3120  
19.940 -.3197 -.3006  
39.905 -.3095 -.2981  
320.095 -.3087 -.3151  
340.060 -.3190 -.3053

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP LR

(RE4E96)

ALPHA ( 2 ) = -.406 BETA ( 3 ) = 4.031 MACH = .89957 RN/L = 4.1951 PO = 2105.5 P = 1245.5

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3125	-.3033
19.940	-.3217	-.3169
39.905	-.3401	-.3454
320.095	-.2980	-.2814
340.060	-.3015	-.2945

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = -.003 MACH = .90050 RN/L = 4.1971 PO = 2105.5 P = 1244.3

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3085	-.2991
19.940	-.2998	-.2808
39.905	-.2906	-.2774
320.095	-.2801	-.2899
340.060	-.3095	-.3130

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LP

(REWE97) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 4.000 ELV-08 = 4.000  
RN/L = 4.250 MAC = 1.100

ALPHA ( 1 ) = -3.963 BETA ( 1 ) = .003 MACH = 1.0995 RN/L = 4.3360 PO = 2105.5 P = 986.72

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3397 -.3304  
19.940 -.3238 -.2972  
39.905 -.3108 -.3099  
320.095 -.3230 -.3488  
340.060 -.3353 -.3548

ALPHA ( 2 ) = -.409 BETA ( 1 ) = -3.997 MACH = 1.0997 RN/L = 4.3375 PO = 2105.5 P = 986.54

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3393 -.3370  
19.940 -.3610 -.3514  
39.905 -.3502 -.3471  
320.095 -.3364 -.3556  
340.060 -.3249 -.3211

ALPHA ( 2 ) = -.396 BETA ( 2 ) = -.003 MACH = 1.0997 RN/L = 4.3375 PO = 2105.5 P = 985.54

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3157 -.3122  
19.940 -.3084 -.2881  
39.905 -.3027 -.3020  
320.095 -.3020 -.3289  
340.060 -.3155 -.3367



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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP LR

(RE4E97)

ALPHA ( 2 ) = -.429 BETA ( 3 ) = 4.028 MACH = 1.0997 RN/L = 4.3375 PO = 2105.5 P = 985.54

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3367	-.3264
19.940	-.3431	-.3476
39.905	-.3564	-.3904
320.095	-.3203	-.3511
340.060	-.3330	-.3335

ALPHA ( 3 ) = 4.033 BETA ( 1 ) = -.003 MACH = 1.0997 RN/L = 4.3440 PO = 2105.2 P = 985.87

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3553	-.3569
19.940	-.3500	-.3247
39.905	-.3424	-.3441
320.095	-.3399	-.3668
340.060	-.3553	-.3783

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E98) ( 14 JAN 75 )

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 4.000 ELV-09 = 4.000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.973 BETA ( 1 ) = .003 MACH = 1.2526 RN/L = 4.3420 PO = 2108.4 P = 811.19

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2395 -.2267  
19.940 -.2257 -.2056  
39.905 -.2199 -.2174  
320.095 -.2313 -.2428  
340.060 -.2329 -.2414

ALPHA ( 2 ) = -.482 BETA ( 1 ) = -3.994 MACH = 1.2535 RN/L = 4.3392 PO = 2107.9 P = 809.98

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2120 -.2155  
19.940 -.2290 -.2220  
39.905 -.2206 -.2208  
320.095 -.2030 -.2168  
340.060 -.1969 -.1947

ALPHA ( 2 ) = -.439 BETA ( 2 ) = -.003 MACH = 1.2535 RN/L = 4.3392 PO = 2107.9 P = 809.98

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2186 -.2121  
19.940 -.2196 -.2069  
39.905 -.2221 -.2253  
320.095 -.2179 -.2190  
340.060 -.2193 -.2185

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP LR

(RE4E98)

ALPHA ( 2 ) = - .416 BETA ( 3 ) = 4.028 MACH = 1.2535 RN/L = 4.3392 PO = 2107.9 P = 809.98

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2144 -.2030  
19.940 -.2273 -.2386  
39.905 -.2409 -.2658  
320.095 -.2014 -.2139  
340.060 -.2135 -.2043

ALPHA ( 3 ) = 4.020 BETA ( 1 ) = .003 MACH = 1.2508 RN/L = 4.3353 PO = 2107.7 P = 912.82

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2218 -.2165  
19.940 -.2242 -.2091  
39.905 -.2283 -.2407  
320.095 -.2166 -.2290  
340.060 -.2202 -.2252

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4E99) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = 4.000 ELV-08 = 4.000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.944 BETA ( 1 ) = .009 MACH = 1.4093 RN/L = 4.2699 PO = 2108.4 P = 653.90

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1841 -.1743  
19.940 -.1870 -.1691  
39.905 -.1873 -.1963  
320.095 -.1896 -.1896  
340.060 -.1882 -.1831

ALPHA ( 2 ) = -.403 BETA ( 1 ) = -3.991 MACH = 1.4102 RN/L = 4.2615 PO = 2109.3 P = 653.36

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1546 -.1586  
19.940 -.1752 -.1749  
39.905 -.1757 -.1869  
320.095 -.1559 -.1627  
340.060 -.1456 -.1400

ALPHA ( 2 ) = -.396 BETA ( 2 ) = .012 MACH = 1.4102 RN/L = 4.2615 PO = 2109.3 P = 653.36

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1744 -.1618  
19.940 -.1614 -.1448  
39.905 -.1656 -.1753  
320.095 -.1731 -.1822  
340.060 -.1766 -.1786

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ARC11-0231A80 OTS(SRB=N ORB=N ) BOFLAP LP

(RE4E99)

ALPHA ( 2 ) = -.443 BETA ( 3 ) = 4.034 MACH = 1.4102 RN/L = 4.2615 PO = 2109.3 P = 653.36

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1531	-.1400
19.940	-.1635	-.1612
39.905	-.1769	-.1995
320.035	-.1492	-.1597
340.060	-.1537	-.1472

ALPHA ( 3 ) = 3.864 BETA ( 1 ) = .012 MACH = 1.4084 RN/L = 4.2570 PO = 2109.1 P = 654.92

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1672	-.1583
19.940	-.1436	-.1183
39.905	-.1399	-.1469
320.095	-.1584	-.1757
340.060	-.1659	-.1805

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BOFLAP LR

(RE4EA0) ( 14 JAN 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
 LREF = 1290.3000 IN. YMRP = .0000 IN.  
 BREF = 1290.3000 IN. ZMRP = .0000 IN.  
 SCALE = .0200

## PARAMETRIC DATA

ELV-18 = .000 ELV-08 = 4.000  
 RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.894 BETA ( 1 ) = .000 MACH = .60180 RN/L = 3.5043 PO = 2121.1 P = 1660.6

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
 .000 -.2192 -.2051  
 19.940 -.2182 -.1873  
 39.905 -.2064 -.1967  
 320.095 -.2032 -.2008  
 340.060 -.2189 -.2028

ALPHA ( 2 ) = -.281 BETA ( 1 ) = -4.003 MACH = .59723 RN/L = 3.4029 PO = 2122.3 P = 1667.4

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
 .000 -.2304 -.2151  
 19.940 -.2206 -.2050  
 39.905 -.2115 -.1972  
 320.095 -.2029 -.2015  
 340.060 -.2138 -.2073

ALPHA ( 2 ) = -.287 BETA ( 2 ) = .012 MACH = .59723 RN/L = 3.4829 PO = 2122.3 P = 1667.4

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
 .000 -.2239 -.2062  
 19.940 -.2167 -.1900  
 39.905 -.2066 -.1954  
 320.095 -.2037 -.1969  
 340.060 -.2218 -.2096

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(REWEA01)

ALPHA ( 2 ) = -.301 BETA ( 3 ) = 4.028 MACH = .59723 RN/L = 3.4829 PO = 2122.3 P = 1667.4

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2310	-.2021
19.940	-.2144	-.1919
39.905	-.2186	-.2093
320.095	-.1978	-.2035
340.060	-.2320	-.2201

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = .012 MACH = .59790 RN/L = 3.4847 PO = 2122.5 P = 1666.8

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2206	-.2054
19.940	-.2118	-.1904
39.905	-.2054	-.1959
320.095	-.1935	-.1918
340.060	-.2240	-.2098

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(REWEA1) ( 14 JAN 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
 LREF = 1290.3000 IN. YMRP = .0000 IN.  
 BREF = 1290.3000 IN. ZMRP = .0000 IN.  
 SCALE = .0200

## PARAMETRIC DATA

ELV-18 = .000 ELV-08 = 4.000  
 RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.996 BETA ( 1 ) = .009 MACH = .89940 RN/L = 4.2300 PO = 2121.8 P = 1255.3

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
 .000 -.2879 -.2787  
 19.940 -.2873 -.2654  
 39.905 -.2840 -.2736  
 320.095 -.2560 -.2518  
 340.060 -.2942 -.2801

ALPHA ( 2 ) = -.281 BETA ( 1 ) = -4.006 MACH = .90087 RN/L = 4.2382 PO = 2122.0 P = 1253.5

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
 .000 -.2983 -.3069  
 19.940 -.2981 -.2886  
 39.905 -.2834 -.2719  
 320.095 -.2636 -.2524  
 340.060 -.3007 -.2957

ALPHA ( 2 ) = -.284 BETA ( 2 ) = .009 MACH = .90087 RN/L = 4.2382 PO = 2122.0 P = 1253.5

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
 .000 -.2827 -.2738  
 19.940 -.2912 -.2726  
 39.905 -.2863 -.2851  
 320.095 -.2604 -.2567  
 340.060 -.2890 -.2708

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4EA1)

ALPHA ( 2 ) = -.281 BETA ( 3 ) = 4.028 MACH = .90087 RN/L = 4.2382 PO = 2122.0 P = 1253.5

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2823	-.2667
19.940	-.2855	-.2698
39.905	-.2865	-.2714
320.095	-.2802	-.2470
340.060	-.2813	-.2609

ALPHA ( 3 ) = 4.023 BETA ( 1 ) = .016 MACH = .90100 RN/L = 4.2328 PO = 2121.8 P = 1253.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2641	-.2494
19.940	-.2673	-.2510
39.905	-.2621	-.2665
320.095	-.2328	-.2375
340.060	-.2732	-.2625

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ARC11-0231A90 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4EA2) ( 14 JAN 75 )

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = 4.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.967 BETA ( 1 ) = .006 MACH = 1.0986 RN/L = 4.3563 PO = 2114.0 P = 991.79

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3607 -.3534  
19.940 -.3477 -.3242  
39.905 -.3354 -.3228  
320.095 -.3206 -.3186  
340.060 -.3549 -.3554

ALPHA ( 2 ) = -.284 BETA ( 1 ) = -4.003 MACH = 1.1004 RN/L = 4.3594 PO = 2113.8 P = 989.54

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3605 -.3504  
19.940 -.3889 -.3867  
39.905 -.3749 -.3572  
320.095 -.3440 -.3477  
340.060 -.3496 -.3401

ALPHA ( 2 ) = -.258 BETA ( 2 ) = -.012 MACH = 1.1004 RN/L = 4.3594 PO = 2113.8 P = 989.54

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3298 -.3330  
19.940 -.3161 -.3102  
39.905 -.3096 -.3032  
320.095 -.2931 -.2983  
340.060 -.3363 -.3338

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4EA2)

ALPHA ( 2 ) = -.301 BETA ( 1 ) = 4.016 MACH = 1.1004 RN/L = 4.3594 PO = 2113.8 P = 989.54

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3585	-.3504
19.940	-.3680	-.3710
39.905	-.3690	-.3771
320.095	-.3346	-.3414
340.060	-.3594	-.3544

ALPHA ( 3 ) = 3.947 BETA ( 1 ) = .000 MACH = 1.1030 RN/L = 4.3633 PO = 2114.0 P = 986.41

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3633	-.3700
19.940	-.3574	-.3384
39.905	-.3366	-.3340
320.095	-.3275	-.3337
340.060	-.3670	-.3703

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4EA3) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = 4.000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.947 BETA ( 1 ) = -.006 MACH = 1.2545 RN/L = 4.3671 PO = 2114.0 P = 811.27

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2737 -.2658  
19.940 -.2515 -.2370  
39.905 -.2479 -.2522  
320.095 -.2539 -.2555  
340.060 -.2805 -.2847

ALPHA ( 2 ) = -.248 BETA ( 1 ) = -4.000 MACH = 1.2545 RN/L = 4.3581 PO = 2114.0 P = 811.32

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2673 -.2618  
19.940 -.2857 -.2732  
39.905 -.2725 -.2643  
320.095 -.2475 -.2594  
340.060 -.2472 -.2451

ALPHA ( 2 ) = -.244 BETA ( 2 ) = -.006 MACH = 1.2545 RN/L = 4.3581 PO = 2114.0 P = 811.32

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2818 -.2830  
19.940 -.2637 -.2468  
39.905 -.2465 -.2452  
320.095 -.2399 -.2437  
340.060 -.2844 -.2816

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4EA3)

ALPHA ( 2 ) = - .271 BETA ( 3 ) = 4.022 MACH = 1.2545 RN/L = 4.3581 PO = 2114.0 P = 811.32

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2678	-.2549
19.940	-.2923	-.2996
39.905	-.2867	-.2958
320.095	-.2404	-.2437
340.060	-.2678	-.2657

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = .003 MACH = 1.2546 RN/L = 4.3551 PO = 2114.0 P = 811.12

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2833	-.2827
19.940	-.2699	-.2517
39.905	-.2559	-.2591
320.095	-.2480	-.2486
340.060	-.2755	-.2812

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF)

BDFLAP LR

(RE4EA4) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = 4.000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.947 BETA ( 1 ) = .006 MACH = 1.4033 RN/L = 4.3439 PO = 2107.0 P = 659.02

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2718 -.2612  
19.940 -.2654 -.2479  
39.905 -.2509 -.2470  
320.095 -.2595 -.2440  
340.060 -.2650 -.2552

ALPHA ( 2 ) = -.267 BETA ( 1 ) = -3.994 MACH = 1.4040 RN/L = 4.3128 PO = 2099.2 P = 655.94

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1892 -.1904  
19.940 -.2241 -.2160  
39.905 -.2528 -.2260  
320.095 -.2222 -.2344  
340.060 -.2006 -.1992

ALPHA ( 2 ) = -.277 BETA ( 2 ) = -.003 MACH = 1.4040 RN/L = 4.3128 PO = 2099.2 P = 655.94

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2460 -.2413  
19.940 -.2182 -.2050  
39.905 -.1993 -.2028  
320.095 -.2244 -.2185  
340.060 -.2419 -.2419

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ARC11-0231A80 OTS(SRB=OFF ORB=OFF) BDFLAP LR (RE4EA4)

ALPHA ( 2 ) = -.284 BETA ( 3 ) = 4.019 MACH = 1.4040 RN/L = 4.3128 PO = 2099.2 P = 655.94

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2069 -.1933  
19.940 -.2324 -.2249  
39.905 -.2383 -.2477  
320.095 -.2244 -.2134  
340.060 -.2100 -.2194

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = .006 MACH = 1.3970 RN/L = 4.2777 PO = 2085.7 P = 658.16

SECTION ( 1 ) BDFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2348 -.2378  
19.940 -.2131 -.1978  
39.905 -.1962 -.2024  
320.095 -.2126 -.2066  
340.060 -.2330 -.2351

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4EA5) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = 4.000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -3.983 BETA ( 1 ) = .012 MACH = .59900 RN/L = 3.4730 PO = 2113.3 P = 1658.1

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2562 -.2495  
19.940 -.2471 -.2192  
39.905 -.2382 -.2365  
320.095 -.2473 -.2504  
340.060 -.2662 -.2618

ALPHA ( 2 ) = -.337 BETA ( 1 ) = -4.006 MACH = .60037 RN/L = 3.4773 PO = 2112.8 P = 1656.0

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2397 -.2479  
19.940 -.2451 -.2247  
39.905 -.2237 -.2035  
320.095 -.2487 -.2422  
340.060 -.2421 -.2441

ALPHA ( 2 ) = -.370 BETA ( 2 ) = .009 MACH = .60037 RN/L = 3.4773 PO = 2112.8 P = 1656.0

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2550 -.2450  
19.940 -.2457 -.2054  
39.905 -.2376 -.2302  
320.095 -.2473 -.2638  
340.060 -.2527 -.2503



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ARC11-0231A80 OTS(SRB=N ORB=N ) BOFLAP LR (RE4EA5)

ALPHA ( 2 ) = -.453 BETA ( 3 ) = 4.025 MACH = .60037 RN/L = 3.4773 PO = 2112.8 P = 1656.0

SECTION ( 1 ) BOFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2337	-.2106
19.940	-.2208	-.1957
39.905	-.2370	-.2431
320.095	-.2260	-.2524
340.060	-.2455	-.2398

ALPHA ( 3 ) = 3.910 BETA ( 1 ) = .009 MACH = .60100 RN/L = 3.4798 PO = 2112.6 P = 1655.0

SECTION ( 1 ) BOFLAP LOWER SURF. DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2487	-.2447
19.940	-.2281	-.1947
39.905	-.2288	-.2214
320.095	-.2424	-.2559
340.060	-.2467	-.2494

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4EA6) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCAL = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = 4.000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.937 BETA ( 1 ) = .016 MACH = .90250 RN/L = 4.2121 PO = 2111.9 P = 1245.3

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3334 -.3223  
19.940 -.3261 -.3131  
39.905 -.3095 -.3065  
320.095 -.3162 -.3188  
340.060 -.3334 -.3296

ALPHA ( 2 ) = -.376 BETA ( 1 ) = -4.006 MACH = .90930 RN/L = 4.2268 PO = 2111.9 P = 1236.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3215 -.3470  
19.940 -.3263 -.3162  
39.905 -.3172 -.3034  
320.095 -.3412 -.3484  
340.060 -.3460 -.3550

ALPHA ( 2 ) = -.353 BETA ( 2 ) = .009 MACH = .90930 RN/L = 4.2268 PO = 2111.9 P = 1236.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3337 -.3209  
19.940 -.3259 -.3068  
39.905 -.3201 -.3023  
320.095 -.3172 -.3155  
340.060 -.3238 -.3118

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR (RE4EA6)

ALPHA ( 2 ) = -.420 BETA ( 3 ) = 4.022 MACH = .90930 RN/L = 4.2268 PO = 2111.9 P = 1236.2

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3268	-.3120
19.940	-.3357	-.3294
39.905	-.3615	-.3619
320.095	-.3165	-.2963
340.060	-.3096	-.2907

ALPHA ( 3 ) = 3.910 BETA ( 1 ) = .006 MACH = .91060 RN/L = 4.2296 PO = 2111.9 P = 1234.3

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3148	-.2921
19.940	-.3132	-.2935
39.905	-.3079	-.2901
320.095	-.2985	-.3048
340.060	-.3077	-.3002

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ARC11-0231A80 OTS(SRB=N ORB=N )

BDFLAP LR

(RE4EA7) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = 4.000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.996 BETA ( 1 ) = .006 MACH = 1.0997 RN/L = 4.3565 PO = 2107.7 P = 987.56

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3404 -.3293  
19.940 -.3262 -.2971  
39.905 -.3098 -.3054  
320.095 -.3200 -.3424  
340.060 -.3345 -.3509

ALPHA ( 2 ) = -.416 BETA ( 1 ) = -4.003 MACH = 1.0993 RN/L = 4.3567 PO = 2107.7 P = 988.07

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3380 -.3313  
19.940 -.3631 -.3514  
39.905 -.3458 -.3413  
320.095 -.3292 -.3494  
340.060 -.3262 -.3219

ALPHA ( 2 ) = -.403 BETA ( 2 ) = -.012 MACH = 1.0993 RN/L = 4.3567 PO = 2107.7 P = 988.07

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3188 -.3132  
19.940 -.3119 -.2874  
39.905 -.3018 -.2952  
320.095 -.3047 -.3280  
340.060 -.3192 -.3347

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ARC11-0231A80 OTS(SRB=N ORB=N )

BOFLAP LR

(RE4EA7)

ALPHA ( 2 ) = -.426 BETA ( 3 ) = 4.019 MACH = 1.0993 RN/L = 4.3567 PO = 2107.7 P = 988.07

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3404	-.3318
19.940	-.3489	-.3535
39.905	-.3630	-.3911
320.095	-.3340	-.3572
340.060	-.3396	-.3400

ALPHA ( 3 ) = 3.798 BETA ( 1 ) = .009 MACH = 1.0994 RN/L = 4.3619 PO = 2107.7 P = 987.85

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3539	-.3565
19.940	-.3442	-.3261
39.905	-.3376	-.3394
320.095	-.3404	-.3663
340.060	-.3513	-.3751

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR

(RE4EAB) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = 4.000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.986 BETA ( 1 ) = .009 MACH = 1.2550 RN/L = 4.3537 PO = 2109.1 P = 808.83

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2399 -.2278  
19.940 -.2286 -.2041  
39.905 -.2184 -.2162  
320.095 -.2249 -.2386  
340.060 -.2351 -.2387

ALPHA ( 2 ) = -.400 BETA ( 1 ) = -4.003 MACH = 1.2517 RN/L = 4.3574 PO = 2109.1 P = 812.36

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2187 -.2153  
19.940 -.2306 -.2221  
39.905 -.2228 -.2118  
320.095 -.2170 -.2253  
340.060 -.1971 -.1971

ALPHA ( 2 ) = -.393 BETA ( 2 ) = -.012 MACH = 1.2517 RN/L = 4.3574 PO = 2109.1 P = 812.36

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2230 -.2105  
19.940 -.2181 -.2035  
39.905 -.2127 -.2149  
320.095 -.2110 -.2118  
340.060 -.2162 -.2138

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR (RE4EAB)

ALPHA ( 2 ) = -.413 BETA ( 3 ) = 4.022 MACH = 1.2517 RN/L = 4.3574 PO = 2109.1 P = 812.36

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2242	-.2157
19.940	-.2383	-.2430
39.905	-.2430	-.2689
320.095	-.2026	-.2158
340.060	-.2246	-.2143

ALPHA ( 3 ) = 3.947 BETA ( 1 ) = .003 MACH = 1.2539 RN/L = 4.3574 PO = 2109.1 P = 810.01

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2232	-.2105
19.940	-.2228	-.2081
39.905	-.2248	-.2264
320.095	-.2128	-.2179
340.060	-.2207	-.2186

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ARC11-0231A80 OTS(SRB=N ORB=N ) BOFLAP LR

(RE4EA9) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = 4.000  
RN/L = 4.250 MACH = 1.000

ALPHA ( 1 ) = -3.940 BETA ( 1 ) = .009 MACH = 1.4085 RN/L = 4.2899 PO = 2110.5 P = 655.32

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.1836 -.1715  
19.940 -.1842 -.1671  
39.905 -.1810 -.1781  
320.095 -.1835 -.1838  
340.060 -.1854 -.1785

ALPHA ( 2 ) = -.449 BETA ( 1 ) = -3.997 MACH = 1.4066 RN/L = 4.2802 PO = 2110.5 P = 657.03

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.1558 -.1519  
19.940 -.1759 -.1720  
39.905 -.1762 -.1788  
320.095 -.1506 -.1514  
340.060 -.1440 -.1373

ALPHA ( 2 ) = -.380 BETA ( 2 ) = -.006 MACH = 1.4066 RN/L = 4.2802 PO = 2110.5 P = 657.03

SECTION ( 1 ) BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.1745 -.1608  
19.940 -.1647 -.1419  
39.905 -.1618 -.1645  
320.095 -.1692 -.1767  
340.060 -.1764 -.1780

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ARC11-0231A80 OTS(SRB=N ORB=N ) BDFLAP LR (RE4EA9)

ALPHA ( 2 ) = -.443 BETA ( 3 ) = 4.025 MACH 1.4066 RN/L = 4.2802 PO = 2110.5 P = 657.03

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1523	-.1398
19.940	-.1639	-.1622
39.905	-.1756	-.1953
320.095	-.1475	-.1553
340.060	-.1549	-.1476

ALPHA ( 3 ) = 3.821 BETA ( 1 ) = .006 MACH = 1.4060 RN/L = 4.2706 PO = 2109.8 P = 657.37

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1625	-.1491
19.940	-.1472	-.1249
39.905	-.1371	-.1362
320.095	-.1508	-.1665
340.060	-.1595	-.1768

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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)BDFLAP LR

(RE4EB0) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -4.013 BETA ( 1 ) = .006 MACH = .60070 RN/L = 3.5069 PO = 2116.2 P = 1658.2

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2678 -.2523  
19.940 -.2515 -.2202  
39.905 -.2455 -.2398  
320.095 -.2547 -.2592  
340.060 -.2650 -.2617

ALPHA ( 2 ) = -.271 BETA ( 1 ) = -4.006 MACH = .59863 RN/L = 3.4917 PO = 2115.4 P = 1660.2

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2741 -.2860  
19.940 -.2652 -.2581  
39.905 -.2356 -.2298  
320.095 -.2574 -.2622  
340.060 -.2683 -.2734

ALPHA ( 2 ) = -.310 BETA ( 2 ) = .003 MACH = .59863 RN/L = 3.4917 PO = 2115.4 P = 1660.2

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2579 -.2505  
19.940 -.2411 -.2109  
39.905 -.2477 -.2455  
320.095 -.2521 -.2646  
340.060 -.2539 -.2569

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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)BDFLAP LR

(RE4EB0)

ALPHA ( 2 ) = -.310 BETA ( 3 ) = 4.025 MACH = .59863 RN/L = 3.4917 PO = 2115.4 P = 1660.2

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2645	-.2372
19.940	-.2382	-.2133
39.905	-.2624	-.2683
320.095	-.2501	-.2621
340.060	-.2713	-.2734

ALPHA ( 3 ) = 3.930 BETA ( 1 ) = .009 MACH = .59910 RN/L = 3.4923 PO = 2115.4 P = 1659.7

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2669	-.2587
19.940	-.2426	-.2061
39.905	-.2351	-.2385
320.095	-.2445	-.2608
340.060	-.2638	-.2767

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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)BDFLAP LH

(RE4EB1) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -4.069 BETA ( 1 ) = .009 MACH = .90080 RN/L = 4.2148 PO = 2109.8 P = 1246.4

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3530 -.3366  
19.940 -.3528 -.3271  
39.905 -.3267 -.3281  
320.095 -.3260 -.3356  
340.060 -.3508 -.3427

ALPHA ( 2 ) = -.304 BETA ( 1 ) = -4.006 MACH = .90390 RN/L = 4.2180 PO = 2109.6 P = 1242.0

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3292 -.3653  
19.940 -.3300 -.3136  
39.905 -.3143 -.3080  
320.095 -.3327 -.3434  
340.060 -.3521 -.3798

ALPHA ( 2 ) = -.317 BETA ( 2 ) = .003 MACH = .90390 RN/L = 4.2180 PO = 2109.6 P = 1242.0

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3319 -.3153  
19.940 -.3337 -.3070  
39.905 -.3266 -.3204  
320.095 -.3204 -.3285  
340.060 -.3249 -.3285

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ARC11-0231A60 OTS(SRB=N ORB NO.2 OUT)BDFLAP LR

(RE4EB1)

ALPHA ( 2 ) = -.357 BETA ( 3 ) = 4.025 MACH = .90390 RN/L = 4.2180 PO = 2109.6 P = 1242.0

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3296	-.3295
19.940	-.3402	-.3386
39.905	-.3495	-.3479
320.095	-.3122	-.2938
340.060	-.3297	-.3170

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = .019 MACH = .90670 RN/L = 4.2222 PO = 2109.8 P = 1238.4

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3226	-.2999
19.940	-.3247	-.2979
39.905	-.3174	-.2994
320.095	-.3018	-.3034
340.060	-.3183	-.3127

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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)BDFLAP LR

(RE4EB2) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -3.973 BETA ( 1 ) = -.009 MACH = 1.0946 RN/L = 4.3814 PO = 2106.2 P = 993.13

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3825 -.3764  
19.940 -.3621 -.3403  
39.905 -.3495 -.3476  
320.095 -.3502 -.3613  
340.060 -.3762 -.3896

ALPHA ( 2 ) = -.393 BETA ( 1 ) = -4.006 MACH = 1.0956 RN/L = 4.3828 PO = 2105.7 P = 991.34

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3449 -.3380  
19.940 -.3681 -.3600  
39.905 -.3538 -.3479  
320.095 -.3355 -.3522  
340.060 -.3280 -.3279

ALPHA ( 2 ) = -.340 BETA ( 2 ) = -.016 MACH = 1.0958 RN/L = 4.3828 PO = 2105.7 P = 991.34

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3644 -.3612  
19.940 -.3474 -.3280  
39.905 -.3419 -.3419  
320.095 -.3366 -.3532  
340.060 -.3611 -.3710

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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)BDFLAP L2

(RE4EB2)

ALPHA ( 2 ) = - .357 BETA ( 3 ) = 4.016 MACH = 1.0958 RN/L = 4.3828 PO = 2105.7 P = 991.34

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3621	-.3554
19.940	-.3752	-.3788
39.905	-.3809	-.4024
320.095	-.3489	-.3676
340.060	-.3653	-.3686

ALPHA ( 3 ) = 4.026 BETA ( 1 ) = -.016 MACH = 1.1011 RN/L = 4.3891 PO = 2106.2 P = 985.19

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3809	-.3847
19.940	-.3682	-.3519
39.905	-.3661	-.3690
320.095	-.3594	-.3753
340.060	-.3822	-.3969

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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)BOFLAP LR

(RE4EB3) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.947 BETA ( 1 ) = -.003 MACH = 1.2463 RN/L = 4.4021 PO = 2107.0 P = 817.37

SECTION ( 1 )BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2740 -.2642  
19.940 -.2617 -.2408  
39.905 -.2576 -.2576  
320.095 -.2603 -.2663  
340.060 -.2741 -.2770

ALPHA ( 2 ) = -.400 BETA ( 1 ) = -4.000 MACH = 1.2440 RN/L = 4.3992 PO = 2107.0 P = 819.92

SECTION ( 1 )BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2429 -.2433  
19.940 -.2503 -.2514  
39.905 -.2401 -.2394  
320.095 -.2247 -.2354  
340.060 -.2213 -.2243

ALPHA ( 2 ) = -.370 BETA ( 2 ) = -.009 MACH = 1.2440 RN/L = 4.3992 PO = 2107.0 P = 819.92

SECTION ( 1 )BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2493 -.2413  
19.940 -.2418 -.2406  
39.905 -.2527 -.2590  
320.095 -.2328 -.2370  
340.060 -.2405 -.2397



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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)BDFLAP LR

(RE4EB3)

ALPHA ( 2 ) = -.420 BETA ( 3 ) = 4.019 MACH = 1.2440 RN/L = 4.3992 PO = 2107.0 P = 819.92

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2406	-.2323
19.940	-.2577	-.2728
39.905	-.2698	-.2922
320.095	-.2262	-.2384
340.060	-.2428	-.2359

ALPHA ( 3 ) = 3.986 BETA ( 1 ) = -.012 MACH = 1.2457 RN/L = 4.4005 PO = 2107.7 P = 818.39

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2523	-.2510
19.940	-.2518	-.2477
39.905	-.2614	-.2691
320.095	-.2379	-.2445
340.060	-.2463	-.2526

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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)BDFLAP LR

(RE4EB4) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PAPAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.957 BETA ( 1 ) = -.003 MACH = 1.4002 RN/L = 4.3550 PO = 2109.8 P = 662.79

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2158 -.2080  
19.940 -.2184 -.2036  
39.905 -.2222 -.2290  
320.095 -.2179 -.2171  
340.060 -.2211 -.2161

ALPHA ( 2 ) = -.443 BETA ( 1 ) = -4.000 MACH = 1.3986 RN/L = 4.3460 PO = 2109.6 P = 664.22

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.1637 -.1730  
19.940 -.1909 -.1905  
39.905 -.1956 -.1913  
320.095 -.1660 -.1810  
340.060 -.1551 -.1470

ALPHA ( 2 ) = -.406 BETA ( 2 ) = -.006 MACH = 1.3986 RN/L = 4.3460 PO = 2109.6 P = 664.22

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2021 -.1926  
19.940 -.1882 -.1734  
39.905 -.1943 -.2031  
320.095 -.2004 -.2064  
340.060 -.2074 -.2082

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ARC11-0231A80 OTS(SRB=N ORB NO.2 OUT)BOFLAP LR

(RE4EB4)

ALPHA ( 2 ) = -.446 BETA ( 3 ) = 4.019 MACH = 1.3986 RN/L = 4.3463 PO = 2109.6 P = 664.22

SECTION ( 1 )BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1724	-.1585
19.940	-.1846	-.1826
39.905	-.1995	-.2196
320.095	-.1782	-.1868
340.060	-.1799	-.1759

ALPHA ( 3 ) = 3.953 BETA ( 1 ) = -.009 MACH = 1.3971 RN/L = 4.3340 PO = 2109.8 P = 665.69

SECTION ( 1 )BOFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1756	-.1728
19.340	-.1697	-.1721
39.905	-.1698	-.1827
320.095	-.1817	-.1920
340.060	-.1883	-.2049

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)BDFLAP LR

(RE4EB5' ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 3.400 MACH = .600

ALPHA ( 1 ) = -4.072 BETA ( 1 ) = .012 MACH = .58560 RN/L = 3.4206 PC = 2115.4 P = 1677.1

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2858 -.2858  
19.940 -.2492 -.2320  
39.905 -.2454 -.2338  
320.095 -.2466 -.2578  
340.060 -.3090 -.3187

ALPHA ( 2 ) = -.284 BETA ( 1 ) = -4.003 MACH = .60257 RN/L = 3.4870 PC = 2114.9 P = 1654.8

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2504 -.2431  
19.940 -.2444 -.2269  
39.905 -.2289 -.2138  
320.095 -.2444 -.2424  
340.060 -.2470 -.2420

ALPHA ( 2 ) = -.337 BETA ( 2 ) = .003 MACH = .60257 RN/L = 3.4870 PC = 2114.9 P = 1654.8

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.2575 -.2464  
19.940 -.2417 -.2129  
39.905 -.2474 -.2340  
320.095 -.2443 -.2543  
340.060 -.2679 -.2687

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)BDFLAP LR

(RE4EB5)

ALPHA ( 2 ) = -.367 BETA ( 3 ) = 4.025 MACH = .60257 RN/L = 3.4870 PO = 2114.9 P = 1654.8

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2412	-.2172
19.940	-.2237	-.2012
39.905	-.2371	-.2465
320.095	-.2288	-.2496
340.060	-.2448	-.2347

ALPHA ( 3 ) = 3.868 BETA ( 1 ) = .006 MACH = .59730 RN/L = 3.4653 PO = 2114.7 P = 1661.5

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2582	-.2486
19.940	-.2418	-.2061
39.905	-.2364	-.2323
320.095	-.2427	-.2532
340.060	-.2575	-.2502

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TABULATED SOURCE DATA - 1A80

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)BDFLAP LR

(RE4EB6) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -4.013 BETA ( 1 ) = .009 MACH = .89890 RN/L = 4.2040 PO = 2109.8 P = 1249.0

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3377 -.3297  
19.940 -.3401 -.3197  
39.905 -.3109 -.3187  
320.095 -.3077 -.3237  
340.060 -.3391 -.3297

ALPHA ( 2 ) = -.317 BETA ( 1 ) = -4.003 MACH = .90107 RN/L = 4.2091 PO = 2108.6 P = 1245.3

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3151 -.3373  
19.940 -.3234 -.3044  
39.905 -.3047 -.2997  
320.095 -.3168 -.3268  
340.060 -.3411 -.3557

ALPHA ( 2 ) = -.310 BETA ( 2 ) = .003 MACH = .90107 RN/L = 4.2091 PO = 2108.6 P = 1245.3

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.3293 -.3126  
19.940 -.3240 -.3060  
39.905 -.3089 -.3053  
320.095 -.2949 -.3115  
340.060 -.3222 -.3193

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)BDFLAP LR

(RE4EB6)

ALPHA ( 2 ) = -.340 BETA ( 3 ) = 4.025 MACH = .90107 RN/L = 4.2091 PO = 2108.6 P = 1245.3

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3147	-.3084
19.940	-.3277	-.3165
39.905	-.3379	-.3486
320.095	-.3042	-.2863
340.060	-.3193	-.3098

ALPHA ( 3 ) = 3.854 BETA ( 1 ) = .009 MACH = .90130 RN/L = 4.2066 PO = 2109.1 P = 1245.3

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3108	-.2978
19.940	-.3091	-.2920
39.905	-.2972	-.2920
320.095	-.2840	-.2968
340.060	-.3095	-.3029

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)BDFLAP LR

(RE4EB7) ( 14 JAN 75 )

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -4.003 BETA ( 1 ) = -.012 MACH = 1.0992 RN/L = 4.3803 PO = 2102.7 P = 985.74

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3341 -.3201  
19.940 -.3233 -.2948  
39.905 -.3094 -.3036  
320.095 -.3165 -.3311  
340.060 -.3284 -.3384

ALPHA ( 2 ) = -.393 BETA ( 1 ) = -4.006 MACH = 1.1052 RN/L = 4.3824 PO = 2102.7 P = 978.47

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3262 -.3186  
19.940 -.3456 -.3317  
39.905 -.3308 -.3244  
320.095 -.3130 -.3273  
340.060 -.3098 -.3050

ALPHA ( 2 ) = -.347 BETA ( 2 ) = -.019 MACH = 1.1052 RN/L = 4.3824 PO = 2102.7 P = 978.47

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3166 -.3020  
19.940 -.3027 -.2883  
39.905 -.2965 -.2921  
320.095 -.2941 -.3098  
340.060 -.3106 -.3182

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)BDFLAP LR

(RE4EB7)

ALPHA ( 2 ) = -.383 BETA ( 3 ) = 4.012 MACH = 1.1052 RN/L = 4.3824 PO = 2102.7 P = 978.47

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3150	-.3055
19.940	-.3214	-.3307
39.905	-.3332	-.3555
320.095	-.3053	-.3231
340.060	-.3146	-.3129

ALPHA ( 3 ) = 4.049 BETA ( 1 ) = -.012 MACH = 1.1075 RN/L = 4.3846 PO = 2102.7 P = 975.68

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3411	-.3406
19.940	-.3369	-.3131
39.905	-.3261	-.3278
320.095	-.3244	-.3437
340.060	-.3381	-.3519

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)BDFLAP L.R

(RE4EB8) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = 1.250

ALPHA ( 1 ) = -3.914 BETA ( 1 ) = -.009 MACH = 1.2513 RN/L = 4.3952 PO = 2104.1 P = 810.95

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2467 -.2327  
19.940 -.2326 -.2108  
39.905 -.2275 -.2241  
320.095 -.2324 -.2452  
340.060 -.2431 -.2459

ALPHA ( 2 ) = -.353 BETA ( 1 ) = -4.006 MACH = 1.2491 RN/L = 4.3923 PO = 2104.8 P = 813.54

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2322 -.2286  
19.940 -.2418 -.2334  
39.905 -.2292 -.2313  
320.095 -.2125 -.2239  
340.060 -.2078 -.2051

ALPHA ( 2 ) = -.367 BETA ( 2 ) = -.016 MACH = 1.2491 RN/L = 4.3920 PO = 2104.8 P = 813.54

SECTION ( 1 ) BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2297 -.2180  
19.940 -.2259 -.2132  
39.905 -.2290 -.2289  
320.095 -.2180 -.2205  
340.060 -.2264 -.2170

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)BDFLAP LR

(RE4E88)

ALPHA ( 2 ) = -.393 BETA ( 3 ) = 4.016 MACH = 1.2491 RN/L = 4.3923 PO = 2104.8 P = 813.54

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2230	-.2136
19.940	-.2419	-.2487
39.905	-.2478	-.2720
320.095	-.2073	-.2203
340.060	-.2252	-.2136

ALPHA ( 3 ) = 4.053 BETA ( 1 ) = -.012 MACH = 1.2485 RN/L = 4.3917 PO = 2104.1 P = 813.89

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.2306	-.2255
19.940	-.2325	-.2195
39.905	-.2360	-.2419
320.095	-.2230	-.2291
340.060	-.2285	-.2300

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)BDFLAP LR

(RE4EB9) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.400

ALPHA ( 1 ) = -3.934 BETA ( 1 ) = -.009 MACH = 1.4069 RN/L = 4.3421 PO = 2107.0 P = 655.71

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.1894 -.1776  
19.940 -.1886 -.1724  
39.905 -.1859 -.1878  
320.095 -.1890 -.1870  
340.060 -.1895 -.1834

ALPHA ( 2 ) = -.426 BETA ( 1 ) = -4.006 MACH = 1.4068 RN/L = 4.3355 PO = 2107.7 P = 655.95

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.1603 -.1600  
19.940 -.1797 -.1762  
39.905 -.1791 -.1866  
320.095 -.1523 -.1573  
340.060 -.1457 -.1407

ALPHA ( 2 ) = -.383 BETA ( 2 ) = -.016 MACH = 1.4068 RN/L = 4.3355 PO = 2107.7 P = 655.95

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000 -.1751 -.1611  
19.940 -.1636 -.1450  
39.905 -.1667 -.1707  
320.095 -.1727 -.1791  
340.060 -.1778 -.1775

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ARC11-0231A80 OTS(SRB=N ORB NO.1 OUT)BDFLAP \_R

(RE4EB9)

ALPHA ( 2 ) = -.436 BETA ( 3 ) = 4.016 MACH = 1.4068 RN/L = 4.3356 PO = 2107.7 P = 655.95

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1544	-.1434
19.940	-.1664	-.1630
39.905	-.1806	-.2022
320.095	-.1530	-.1596
340.060	-.1597	-.1504

ALPHA ( 3 ) = 4.046 BETA ( 1 ) = -.012 MACH = 1.4068 RN/L = 4.3293 PO = 2108.4 P = 656.24

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.1665	-.1520
19.940	-.1466	-.1256
39.905	-.1391	-.1442
320.095	-.1544	-.1683
340.060	-.1612	-.1791

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ARC11-0231A80 OTS(ET SPOIL(SRB=ORB=OFF)BDFLAP LR

(RE4ECO) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-OB = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -4.029 BETA ( 1 ) = .016 MACH = .89710 RN/L = 4.2461 PO = 2124.6 P = 1260.2

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3274 -.3171  
19.940 -.3170 -.3071  
39.905 -.3114 -.3054  
320.095 -.2956 -.2951  
340.060 -.3214 -.3208

ALPHA ( 2 ) = -.241 BETA ( 1 ) = -4.009 MACH = .90283 RN/L = 4.2516 PO = 2122.7 P = 1251.2

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3274 -.3086  
19.940 -.3266 -.3094  
39.905 -.3167 -.3045  
320.095 -.2936 -.2928  
340.060 -.2940 -.2889

ALPHA ( 2 ) = -.264 BETA ( 2 ) = -.003 MACH = .90283 RN/L = 4.2516 PO = 2122.7 P = 1251.2

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3172 -.3045  
19.940 -.3204 -.3031  
39.905 -.3163 -.3094  
320.095 -.2876 -.2864  
340.060 -.3089 -.3012

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ARC11-0231A80 OTS(ET SPOIL(SRB=ORB=OFF)BDFLAP LR

(RE4EC0)

ALPHA ( 2 ) = -.291 BETA ( 3 ) = 4.022 MACH = .90283 RN/L = 4.2515 PO = 2122.7 P = 1251.2

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.2863 -.2745  
19.940 -.2857 -.2747  
39.905 -.2993 -.2913  
320.095 -.2754 -.2648  
340.060 -.2816 -.2733

ALPHA ( 3 ) = 3.980 BETA ( 1 ) = .016 MACH = .90820 RN/L = 4.2637 PO = 2123.2 P = 1244.2

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3133 -.3010  
19.940 -.3186 -.3045  
39.905 -.3186 -.3018  
320.095 -.2787 -.2734  
340.060 -.3037 -.2900

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ARC11-0231A80 OTS(ET SPOIL(SRB=ORB=OFF)BDFLAP LR

(RE4EC1) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -4.000 BETA ( 1 ) = .012 MACH = 1.1039 RN/L = 4.4830 PO = 2123.2 P = 989.56

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3968 -.3782  
19.940 -.3946 -.3710  
39.905 -.3834 -.3673  
320.095 -.3644 -.3561  
340.060 -.3801 -.3673

ALPHA ( 2 ) = -.264 BETA ( 1 ) = -4.009 MACH = 1.1017 RN/L = 4.4844 PO = 2124.6 P = 992.96

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4125 -.4033  
19.940 -.4120 -.3974  
39.905 -.3978 -.3867  
320.095 -.4067 -.4030  
340.060 -.4134 -.4052

ALPHA ( 2 ) = -.284 BETA ( 2 ) = .000 MACH = 1.1017 RN/L = 4.4844 PO = 2124.6 P = 992.96

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3999 -.3883  
19.940 -.4002 -.3755  
39.905 -.3850 -.3705  
320.095 -.3619 -.3554  
340.060 -.3944 -.3846



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ARC11-0231A80 OTS(ET SPDIL(SRB=ORB=OFF)BDFLAP .R

(RE4EC1)

ALPHA ( 2 ) = -.297 BETA ( 3 ) = .4.022 MACH = 1.1017 RN/L = 4.484+ PO = 2124.6 P = 992.96

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4024	-.4020
19.940	-.4208	-.4164
39.905	-.4108	-.4134
320.095	-.3661	-.3691
340.060	-.3949	-.3949

ALPHA ( 3 ) = 3.910 BETA ( 1 ) = .016 MACH = 1.1026 RN/L = 4.4864 PO = 2123.9 P = 991.59

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.4230	-.4084
19.940	-.4193	-.3932
39.905	-.4054	-.3935
320.095	-.3837	-.3771
340.060	-.4099	-.4021

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ARC11-0231A80 OTS(ET SPOIL(SRB=ORB=NOM)BDFLAP LR

(RE4502) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000  
RN/L = 4.250 MACH = .900

ALPHA ( 1 ) = -3.996 BETA ( 1 ) = .015 MACH = .90230 RN/L = 4.2244 PO = 2111.2 P = 1245.1

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3430 -.3460  
19.940 -.3281 -.3414  
39.905 -.3526 -.3601  
320.095 -.3479 -.3585  
340.060 -.3299 -.3412

ALPHA ( 2 ) = -.284 BETA ( 1 ) = -4.012 MACH = .90030 RN/L = 4.2241 PO = 2110.5 P = 1247.5

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3847 -.3891  
19.940 -.3803 -.3757  
39.905 -.3656 -.3585  
320.095 -.3490 -.3709  
340.060 -.3491 -.3619

ALPHA ( 2 ) = -.360 BETA ( 2 ) = -1.003 MACH = .90030 RN/L = 4.2241 PO = 2110.5 P = 1247.5

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3755 -.3739  
19.940 -.3659 -.3727  
39.905 -.3889 -.3879  
320.095 -.3799 -.3913  
340.060 -.3520 -.3534

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ARC11-0231A80 OTS(ET SPOIL(SRB=ORB=NOM)BDFLAP LR

(RE4EC2)

ALPHA ( 2 ) = -.330 BETA ( 3 ) = 4.019 MACH = .90030 RN/L = 4.2241 PO = 2110.5 P = 1247.5

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3385	-.3401
19.940	-.3358	-.3409
39.905	-.3542	-.3735
320.095	-.3285	-.3261
340.060	-.3435	-.3495

ALPHA ( 3 ) = 3.927 BETA ( 1 ) = .012 MACH = .89920 RN/L = 4.2176 PO = 2110.5 P = 1249.0

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3758	-.3731
19.940	-.3657	-.3580
39.905	-.3802	-.3728
320.095	-.3666	-.3760
340.060	-.3653	-.3737

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ARC11-0231A80 OTS(ET SPOIL(SRB:ORB=NOM)BDFLAP LR

(RT4EC3) ( 14 JAN 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .0000 IN.  
LREF = 1290.3000 IN. YMRP = .0000 IN.  
BREF = 1290.3000 IN. ZMRP = .0000 IN.  
SCALE = .0200

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = .000  
RN/L = 4.250 MACH = 1.100

ALPHA ( 1 ) = -4.033 BETA ( 1 ) = .016 MACH = 1.1036 RN/L = 4.4560 PO = 2114.0 P = 985.75

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3743 -.3637  
19.940 -.3755 -.3579  
39.905 -.3713 -.3646  
320.095 -.3547 -.3621  
340.060 -.3643 -.3673

ALPHA ( 2 ) = -.433 BETA ( 1 ) = -4.009 MACH = 1.1009 RN/L = 4.4637 PO = 2114.0 P = 989.05

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.4020 -.3986  
19.940 -.3988 -.3919  
39.905 -.3825 -.3890  
320.095 -.4003 -.4128  
340.060 -.4003 -.4006

ALPHA ( 2 ) = -.446 BETA ( 2 ) = -.003 MACH = 1.1039 RN/L = 4.4637 PO = 2114.0 P = 989.05

SECTION ( 1 )BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI  
.000 -.3652 -.3654  
19.940 -.3684 -.3458  
39.905 -.3581 -.3491  
320.095 -.3527 -.3659  
340.060 -.3658 -.3735

DATE 23 JUL 76

TABULATED SOURCE DATA - 1A80

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ARC11-0231ABD QTS(ET SPOIL(SRB=ORB=NOM)BDFLAP LP

(RE4EC3)

ALPHA ( 2 ) = -1.456 BETA ( 3 ) = 4.022 MACH = 1.1009 RN/L = 4.4637 PC = 2114.0 P = 109.05

SECTION : 11BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3981	-.4007
19.940	-.4182	-.4204
39.905	-.4167	-.4412
320.035	-.3808	-.3923
340.050	-.3927	-.3965

ALPHA ( 3 ) = 3.844 BETA ( 1 ) = .003 MACH = 1.1023 RN/L = 4.4653 PC = 2114.7 P = 967.65

SECTION : 11BDFLAP LOWER SURF.

DEPENDENT VARIABLE CP

XO/LO 1.0230 1.0500

PHI

.000	-.3966	-.3912
19.940	-.3956	-.3766
39.905	-.3907	-.3895
320.095	-.3811	-.3953
340.060	-.3924	-.3989